



CANADA
DEPARTMENT OF MINES AND RESOURCES
MINES, FORESTS, AND SCIENTIFIC SERVICES BRANCH
SURVEYS AND MAPPING BUREAU

GEODETIC SURVEY OF CANADA

PUBLICATION No. 23

PRECISE AND SECONDARY LEVELLING

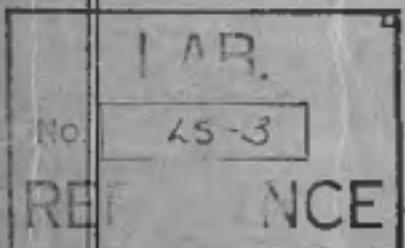
IN

ALBERTA

By

O. R. DOZOIS

(Revised Edition)



OTTAWA
EDMOND GLOUTIER, C.M.G., B.A., LL.B.,
KING'S PRINTER AND CONTROLLER OF STATIONERY
1948

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GENERAL INTRODUCTION

This volume supplants two separately published first editions, namely: Precise Levelling in Alberta (No. 23), issued by the Geodetic Survey of Canada in 1930, and Bench Marks in Alberta (No. 53), by the Topographical Surveys Branch, Department of the Interior, in 1924.

The former was printed as running text, arranged in dictionary form with bench marks listed under the heading of the nearest railway station. The latter was printed in tabular form, more suited to the Dominion Land System of Survey along the lines of which the levelling was done.

As these two methods of printing do not readily lend themselves to dovetailing into a single unit, it was decided that, while appearing in a single volume, it would comprise two parts: the first containing the dictionary of precise levelling along railways, and the second, a tabulation of secondary levelling along lines of the Dominion Lands Survey System.

PART I

PRECISE LEVELS

Part I contains the descriptions and elevations of bench marks established during precise level operations carried on since 1912, covering some 3,808 miles and resulting in the establishment of 1,068 standard bench marks. Of the latter number, 16 are fundamental bench mark piers, a diagram of which appears on page 10.

Precise levelling in Alberta, up to the year 1925, was carried out jointly by the Geodetic Survey of Canada and the Topographical Surveys Branch, both being units of the former Department of the Interior. In the year named, the Levelling Divisions of the two organisations were amalgamated under the Geodetic Survey of Canada.

Anyone interested in the field procedure of precise levelling can secure all the details of such work in Publication No. 8 of this Survey.

THE PRECISE LEVEL NET OF CANADA AND ITS DATUM

To March 31, 1949, a total of 30,204 miles of precise levelling had been completed in the Dominion and 11,108 standard bench marks and 148 fundamental bench marks had been established.

The datum used throughout this publication is Canadian Geodetic datum as authorized by Order in Council P.C. 630, March 11, 1935, to be the official level datum for Federal Government operations in Canada.

The Canadian Geodetic datum is based on the value of mean sea level. It affords the only stable plane of reference for elevations and is the one used universally throughout the world.

In Canada mean sea level determinations have been made with a high degree of accuracy by the Hydrographic Survey; the extensive precise level net of the Geodetic Survey of Canada is based on five of the principal tidal stations of the Hydrographic Survey, viz: Halifax, Yarmouth, and Father Point on the Atlantic Coast, and Vancouver and Prince Rupert on the Pacific.

The United States network of levels is similarly based on mean sea level at certain tidal points of the east and west coast.

Prior to the extension of the Canadian level net across Canada, the United States Coast and Geodetic Survey had advanced similar operations to the

vicinity of the International Boundary. Co-ordination of the two systems has been obtained through frequent connection with United States bench marks, the principal ones being Rouses Point, N.Y., and Stephen, Minn.

Undertaken in 1919, the adjustment of the Precise Level net of Canada was executed and completed in 1928 by the late J. B. Cannon, Chief of the Division of Precise Levelling Adjustment and Precisions. The differential method of adjustment employed is an adaptation of the method of least squares to the treatment of geodetic nets. This innovation has the advantage of immediately disclosing the effects of the subsequent introduction of new levelling into the net.

The adjustment of the Canadian level net is explained in Publication No. 28. Copies of this publication may be obtained on request from the Dominion Geodesist.

PRECISE LEVELLING IN ALBERTA

Before the amalgamation in 1925, already mentioned, the levelling operations of the Topographical Survey were carried out under the general supervision of the late J. N. Wallace. All field work of the Geodetic Survey was executed under the direction of the late F. B. Reid. The following table gives the details of the precise level lines in Alberta, in the order in which they were run, including the names of the engineers in each case.

Year	From	To	Chief of Party	Mileage
1913	Calgary	Edmonton	L. O. R. Dossin	194
1922	Lacombe	"	J. B. Alexander	
1922	Wetaskiwin	"	L. O. R. Dossin	
1913	Edmonton	"	L. O. R. Dossin	170
1914	Butte	"	N. H. Smith	185
1923	Tofield	"	L. O. R. Dossin	
1913	Edmonton	Maribou	N. H. Smith	
1916	Marwayne	Yellowhead	N. H. Smith	104
1914	Walsh	Castor	D. MacMillan	206
1914	Lethbridge	Crowfoot	G. S. Raley	93
1914	Lethbridge	Calgary	G. S. Raley	127
1915	Sibbald	Rosebud	E. W. Berry	169
1916	Rosebud	Calgary	L. O. R. Dossin	81
1915	Calgary	Stephen	G. S. Raley	125
1913	Calgary	Tofield	N. H. Smith	202
1925	Camrose	"	L. O. R. Dossin	
1916	Edmonton	Slave Lake	E. W. Berry	170
1916	Carbonear	Tenmile	E. W. Berry	135
1922	Tweedie	Waterways	J. B. Alexander	167
1913	Medicine Hat	Irvinia	A. J. Bainboth	171
1923	Rosamond	"	L. O. R. Dossin	
1920	Empress	Birdfoot	G. S. Raley	17
1920	Beaumont	Bassano	A. J. Bainboth	101
1925	Empress	"	E. W. Berry	
1919	Coopers	Lacombe	L. O. R. Dossin	121
1921	Medicine	Aldersyde	L. O. R. Dossin	76
1922	Camrose	Wetaskiwin	G. S. Raley	25
1922	Camrose	"	L. O. R. Dossin	
1922	Kerenky	St. Paul	J. B. Alexander	87
1924	Steve Lake	Demitt	G. S. Raley	292
1944	McLennan	Hines Creek	G. S. Raley	113
1947	High Prairie	Grande Prairie	L. O. R. Dossin	110
1947	Spirit River	Alta-B.C. Boundary	L. O. R. Dossin	54
1947	Grimsby	Mietis Colony	L. O. R. Dossin	138
Total				3,523

Note—Where a levelled line crosses a provincial boundary, mileage is taken to the boundary. In cases where two or more engineers are shown as operating in different years on the same line, it indicates that additional levelling was done after the first running of the line, either to improve the accuracy of the levelling or to establish additional bench marks, or for both purposes.

BENCH MARKS

Prior to 1925, the standard precise bench mark of this Survey was a chisel mark on a $\frac{1}{2}$ -inch copper bolt, cemented in walls of substantial buildings, bedrock, bridge abutments, and various concrete works. Subsequently, a bronze tablet 3 inches in diameter replaced the bolt. Illustrations of the bolt and tablet, with their inscriptions, are shown on pages 8 and 9. At certain points concrete bench-mark piers were built which projected from 6 inches to one foot above ground, the exposed portion being 9 inches square in the first piers, later being increased to 12 inches square. The bolt or tablet was placed in the centre of the top of the pier. The serial number of the bench mark was stamped on the bolt or tablet, but in no case was the elevation shown on this type of bench mark.

The construction of fundamental bench marks was inaugurated in 1925 and it is the intention that one of these will ultimately be found in every city and in most of the larger towns of the Dominion. These monuments, by their location and prominence, are proving very useful to the public as governing bench marks for the surrounding districts and, through their permanency, will serve to prolong the life of the precise level system. The elevation is stamped on a rectangular bronze plate attached to one side of the monument. A diagram of a fundamental bench mark is shown on page 10.

In cases of bench marks established by organizations, other than the Geodetic Survey, appropriate acknowledgment is made in the footnotes and the bench mark is designated with the number assigned to it by that organization.

INSPECTION OF BENCH MARKS

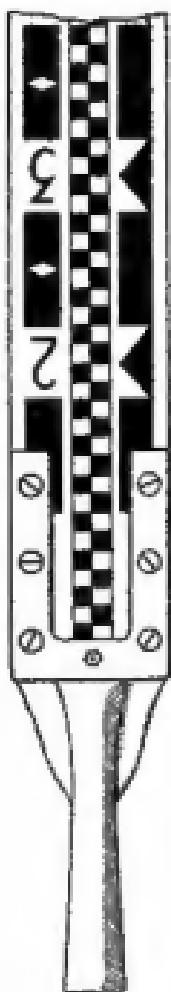
In the years 1944 to 1947, bench marks contained in this publication were inspected by the late Messrs. F. B. Reid, D.L.S., and R. H. Montgomery, D.T.S., and by C. G. W. Bird, B.Sc. From various causes destruction of bench marks goes on at a fairly constant rate, largely dependent upon the time elapsing since their establishment. The last general inspection was carried out in 1928-29 and the recent inspection revealed that 15 per cent of the original number of bench marks had been destroyed in the 20-year interval.

ARRANGEMENT OF DATA

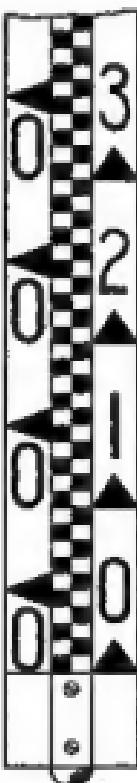
The text is prepared in dictionary form with the descriptions and elevations of bench marks listed under the name of the nearest city, town, village, or railway station on the line of levels. In general, the first bench marks listed under a heading are those near the civic centre, or within the limits of the municipality, followed by those along the lines of levels radiating therefrom. In the listing no distinction is made as to whether the bench marks were placed by the Geodetic Survey or the former Topographical Survey.

The identity of each organization is disclosed by the lettering on the metal bench mark bolt or tablet. A minor difference appears in the numbering of the bench marks; in the case of the Topographical Survey the serial letter of the line precedes the number, as H-102, while it follows the number in the case of the Geodetic Survey, as 146-J.

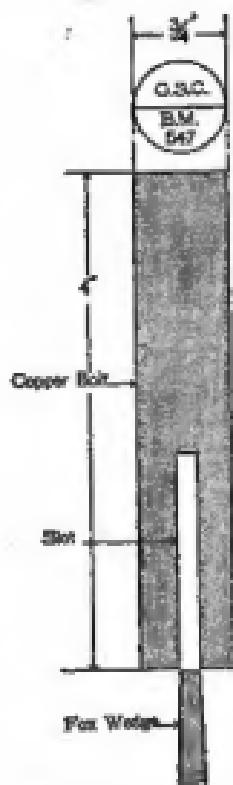
In order to aid anyone in finding adjacent bench marks, a note has been appended to each set of descriptions referring the reader to the headings under which the lines of levels are continued.



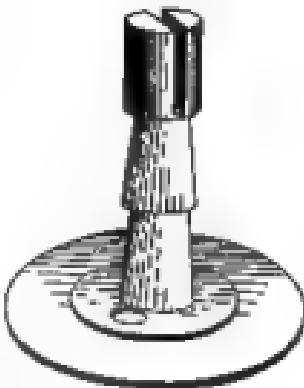
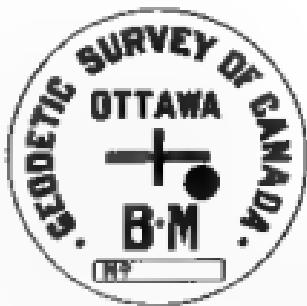
Detail of lower portion of
new type of levelling rod.



Detail of Lower Portion of
old type Levelling Rod



Copper Bolt Bench Mark



Bronze Tablet Bench Mark

PART II

SECONDARY LEVELS

This portion of the publication contains the permanent bench marks along certain base lines, meridians and township outlines established by the former Topographical Survey Branch, Department of the Interior. It replaces Publication No. 63, published in the year 1894 by the late J. N. Wallace, D.L.B., Director of Levelling, and widely distributed to engineers in Alberta.

The differences in elevation between the bench marks now given, and those contained in the previous publication are due to the subsequent general adjustment of the Precise Level net, completed in 1928.

BENCH MARKS

The type of bench mark used almost exclusively on Secondary Levelling in Alberta consists of a galvanized pipe, 2 inches in diameter and 4 feet in length, surmounted by a bronze cap bearing the inscription "Topographical Survey Branch" as well as the letters "B.M.". A cast iron foot-plate measuring 7 inches in diameter is threaded to the lower end of the pipe. The purpose of the latter is to obtain increased stability of the bench mark. When in position, the bronze cap extends about 6 inches above the surface of the ground.

In 1927, or shortly after the absorption of the Levelling Division of the Topographical Survey Branch by the Geodetic Survey of Canada, a modification of the bench-mark pipe was made by increasing its length to 6 feet. At the same time the inscription on the bronze cap was changed to Geodetic Survey of Canada. However, as no secondary levelling has been carried out in Alberta since the aforesaid amalgamation, all bench mark pipes encountered in the following tabulation carry the designation Topographical Survey Branch.

It is the general practice to place the bench mark in one of the boundaries of the road allowance of surveyed section lines, preferably in that side which contains the original survey monuments, that is, on the south or west side

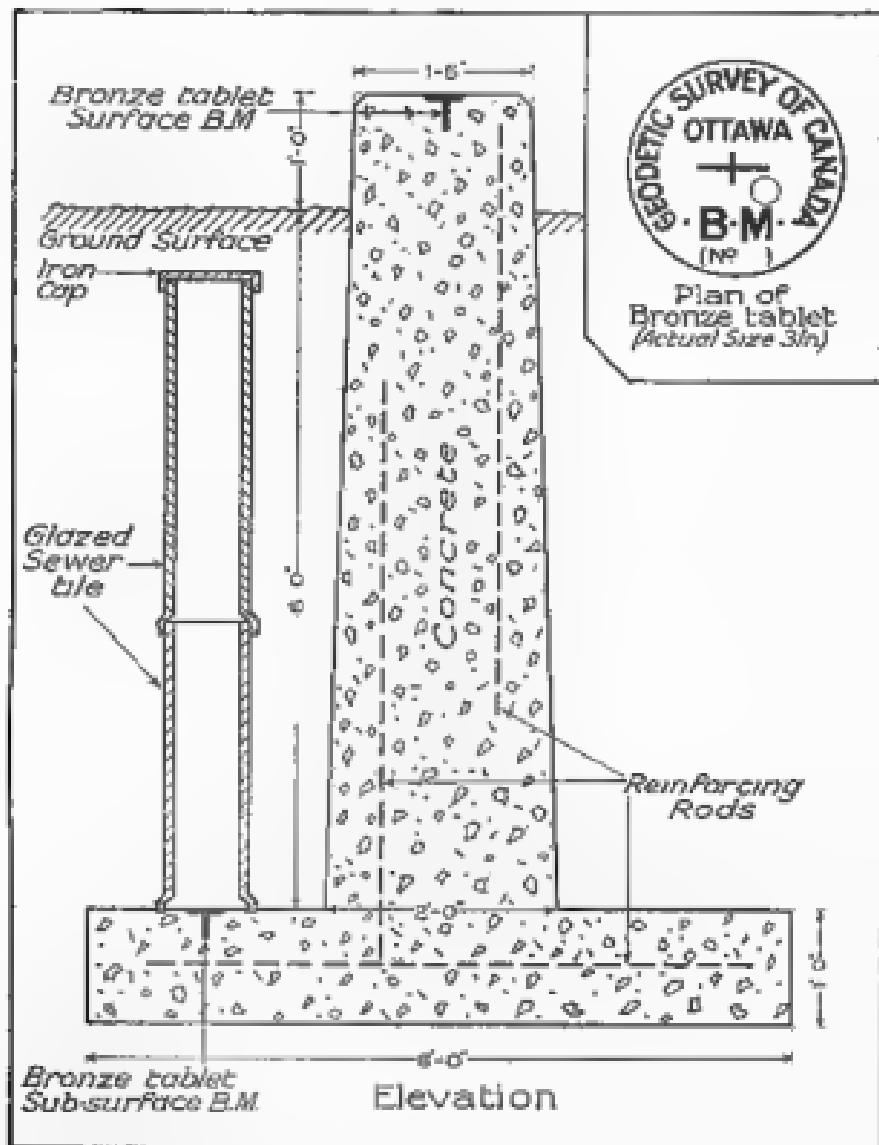


Diagram of Fundamentals, Bench Marks. Inset—Drawing of standard bronze tablet. The elevation and description of the subsurface mark will not be published as the main purpose for the establishment of this mark is to secure permanency. It is not intended for public use and when the necessity arises its recovery will be made by officers of the Geodetic Survey.

of the road allowance. The best natural site is selected with the general provision that a bench mark should not be placed nearer than 200 feet from a section corner. This restriction is based on the assumption that a bench mark placed some distance from a corner is less liable to future disturbance and to remove any possible confusion with the actual land survey post, which also possesses the characteristic of a brass or bronze cap.

The first bench mark pipe of 4-foot length was established in 1916 and it has exhibited a remarkable degree of permanence and stability during the 32 years that it has been used in the Prairie Provinces. Indeed, the 3-foot type of iron pipe bench mark has come to be so highly regarded that it is now in general use on precise levelling.

DATUM

As already mentioned, all the lines of levels here recorded have been reduced to the standard Canadian Geodetic Datum. The lines of precise levels frequently cross the levels along the base lines and meridian sections and in addition to such intersections, the latter secondary levels intersect each other at numerous places. Many circuits of levels have thus been formed. In some of these circuits the perimeters consist entirely of secondary levelling, while in others, certain sides have been precise levelled.

INSTRUMENTS AND FIELD PROCEDURE

The same instruments are used on secondary levelling of the Geodetic Survey as have been used in recent years on precise levelling, namely, the large-type Zeiss pattern level, and level rods graduated into hundredths of a yard, the unit graduations being painted on a strip of paper.

Precise levelling procedure is followed on secondary levelling with certain modifications. A tolerance of $0.30 \text{ foot } \sqrt{M}$, where M is the length of the section in miles, is allowed for the discrepancy between the forward and backward measures of a section instead of the more exacting requirements of $0.017 \text{ foot } \sqrt{M}$ used in precise procedure. Another variation is that only one cross-wire is read on the rod at each sight in lieu of three wire readings which are taken on precise work.

TOWNSHIP OUTLINE LEVELS

The only essential difference between these and secondary levels is that township outline levels are run only one way, provided a satisfactory closure is obtained on each circuit of 24 miles in perimeter. In the 575 miles of this class of levelling recorded in Alberta, the average closing error is 0.15 foot and the three greatest errors are 0.33, 0.28 and 0.26 foot.

LEVELS RUN DURING RETRACEMENT SURVEYS

Part II also contains particulars of 719 miles of levelling run simultaneously with the work of original and retracement surveys. Such levels were not run with the same degree of precision as the two classes previously described. They have, however, been intersected at many points by precise and secondary lines and at such points have been adjusted to the Standard Datum.

The following table gives the various details for each of the lines of levels included in Part II of this publication:

A. SECONDARY CONTROL LEVELS

For the Maritime and West

Line	Type or Range	Surveyor	Year	Miles	S. M.
Fourth Meridian	1 to 60	Various	1914-23	380	36
First correction line	1 to 17	E. W. Berry	1924	96	36
Third base line west	1 to 16	N. S. Clouston	1921	96	12
Fourth	1 to 22	E. W. Berry	1921	166	36
Fifth	1 to 30	R. H. Montgomery	1920	175	32
Sixth	1 to 11	C. A. R. Lawrence	1922	87	30
Seventh	12 to 20	J. B. Alexander	1918	166	30
Tenth	1 to 16	E. W. Berry	1924	90	21
"	23 to 28	J. B. Alexander	1920	96	12
Eleventh	1 to 28	L. O. R. Dosh	1918	164	42
Twelfth	1 to 28	J. B. Alexander	1920	165	36
Thirteenth	1 to 11	J. B. Alexander	1921	86	12
"	12 to 28	R. H. Montgomery	1919	96	27
Fifteenth	1 to 27	C. A. R. Lawrence	1922	162	36
Sixteenth	1 to 27	H. E. Read	1924	160	34
East outline rge. 5	3 to 4	E. W. Berry	1924	12	3
"	41 to 48	J. B. Alexander	1921	48	17
"	50 to 52	H. E. Read	1924	12	6
"	53 to 56	C. A. R. Lawrence	1922	96	36
"	57 to 60	J. B. Alexander	1921	48	17
"	61 to 66	H. E. Read	1924	20	7
"	67 to 70	C. A. R. Lawrence	1922	16	6
"	71 to 76	J. B. Alexander	1917	222	64
"	77 to 80	E. W. Berry	1924	26	12
"	81 to 8	C. A. R. Lawrence	1922	46	20
"	9 to 16	N. S. Clouston	1921	48	16
"	50	H. E. Read	1924	6	3
Outlines of townships in ranges 12 to 28	47 to 53	H. E. Read	1919	575	156

West of Fifth Meridian

Line	Range	Surveyor	Year	Miles	S. M.
Fifth base line west	1 to 2	L. O. R. Dosh	1921	12	6
Sixth	1 to 5	"	1921	16	10
Seventh	1 to 5	"	1921	27	12
Eighth	1 to 4	"	1921	21	8
Ninth	1 to 7	"	1921	27	12
Tenth	1 to 7	"	1921	42	15
Eleventh	1 to 7	"	1921	40	15

TRANSMITTER RANGES

Range	Surveyor	Year	Miles	S. M.
Edmonton to Athabasca Landing	C. de la Condamine	1912	96	32
Grovert to Peace River and Dunvegan	L. E. S. Balton	1910	168	47
Dunvegan to Grande Prairie and Four Coups	J. B. Alexander	1916	175	42
Totals			8,537	1,214

B. LEVELS RUN DURING RETRACEMENT SURVEYS

Line	Type or Range	Year	Miles	B. M.
Second base line west fourth meridian	1 to 30	1917-18	178	54
Third	20 to 30	1918	9	5
Fourth	20 to 30	1918	8	5
Ninth	1 to 20	1915	169	44
Fourteenth	1 to 20	1916	165	37
East outline range 20.	1 to 4	1916	24	10
" 20	0 to 12	1912	24	12
Fifth Meridian	5 to 8	1908	24	9
"	10 to 14	1916	12	5
"	15 to 30	1913	108	29
Totals			719	211

ABBREVIATIONS

Boundary	bdy.	Northwest	N.W.
Concession	con.	Range	rgs.
Concessions	cons.	Section	sec.
Corner	cor.	South	S.
Cube	cu.	Southwest	SW.
East	E.	Southwest	SW.
Elevation	el.	Township	tp.
Feet	ft.	Townships	tps.
North	N.	West	W.
Northeast	NE	Yards	yd.

Canadian National Railways

C.N.Ry

Canadian Pacific Railway

C.P.Ry.

Northern Alberta Railways

N.A.Ry.

PART I

DESCRIPTIONS AND ELEVATIONS OF PRECISE LEVEL BENCH MARKS IN ALBERTA

Note: —The description of each precise level bench mark with its elevation is listed under the name of the nearest railway station or post office.

Alberta: N A Ry. Concrete bench-mark pier, $1\frac{1}{2}$ miles northeast of station and 13 feet south of eighteenth pole south of mile post 48 from Cardbendale, 480 feet north of north mile sign and 3 feet west of easterly limit of right of way, tablet on top of pier. No V-13. Elevation 2,189.822.

Concrete bench-mark pier, $2\frac{1}{2}$ miles southwest of station and at third pole south of mile post 44 from Cardbendale, 73 feet south of a whistle post for northbound trains, 1,200 feet southerly from road allowance along east boundary of sec 27-60-61 and 3 feet west of easterly limit of right of way, bolt set vertically. No V-12. Elevation 2,139.637.

The bench mark was not found during inspection of I.M.T.

See Thorhild and Newbrook

Alberta: C N Ry. Water tank, 1 mile northwest of station. In face of concrete foundation wall which is parallel and nearest to track, 1 foot from southeast end of this face and 7 inches below woodwork. Bolt set horizontally. No. DD-22. Elevation 2,117.982.

Concrete bench-mark pier, $\frac{1}{2}$ mile northwest of station, 4 feet southwest of northerly limit of C N Ry. right of way, 33 feet southeast of mile post 106 from St. Paul Junction and 370 feet northwest of road allowance along east boundary of sec 24-59-11. Bolt set vertically. No DD-22. Elevation 2,112.783.

See Ashmont and Owleeye

Alberta: C. Concrete bench-mark pier, $1\frac{1}{2}$ miles east of station, 4 feet south of northerly limit of C N Ry. right of way and midway between first and second poles west of mileage 12.5 from Edmonton, 1,275 feet east of road allowance along east boundary of sec 3-53-26 and 30 feet west of whistle post for same. North face of pier. Bolt set horizontally. No 62-H. Elevation 2,316.804.

See Edmonton and Sprucegrove

Apple: Iron pipe with brass cap, at the west end of a shallow cut, $\frac{1}{2}$ mile east of east switch, 3 feet south of northerly limit of N A Ry. right of way and between third and fourth poles east of mile post 239 from junction with C N Ry, 137 feet east of a bridge. No. 333-H. Elevation 1,938.850.

Iron pipe with brass cap on high ground $1\frac{1}{2}$ miles northwest of west switch 49 feet southwest of N A Ry. track, 3 feet north of a third pole, 116 tenth pole, southward of mile post 242 from junction with C N Ry, at the northwest end of a long tangent. No. 334-H. Elevation 1,938.674.

In a pipe with brass cap $2\frac{1}{2}$ miles northwest of west switch 49 feet southwest of N A Ry. track, 3 feet north of a third pole, 116 tenth pole, southward of mile post 244 from junction with C N Ry, and 210 feet southeast of a whistle post (for westbound trains) for crossing of Edmonton-Dawson Creek highway. No. 335-H. Elevation 1,933.710.

See High Prairie, Keans, and Triangle

Almatis: C P Ry plate girder bridge over Nose creek 300 feet north of station. Tablet in bridge east of south concrete abutment, 3 inches from east edge and 6 inches from north edge No H-10 Elevation 3,549.023

Double concrete box culvert under C P Ry $\frac{1}{2}$ mile north of station and at mileage 21.9 from Thirlth Street east 300 feet north of road allowance along north boundary of sec 24-27-1 No H-11 Elevation 3,530.302

See Blame and Crossfield.

Albright: Iron pipe with brass cap $\frac{1}{2}$ mile southeast of station, 3 feet northeast of southwest head of N A Ry right of way and at fifteenth pole southeast of mile post 63 from Ryeroff 300 feet southeast of road allowance along north boundary at sec 20-72-10 No 406-H Elevation 2,393.082

Iron pipe with brass cap $\frac{1}{2}$ miles north of station and about 400 feet east of N A Ry on road allowance along north boundary of sec 21-72-10, 4 feet north of south head and 100 feet east of $\frac{1}{2}$ sec corner No T-49 Elevation 2,437.179

See Beaverlodge and Hythe.

Albion: C P Ry Station in southwest or rear concrete foundation wall, 7 feet northwest of cellar doorway and 1 foot below woodwork, bolt set horizontally No 324 D Elevation 2,501.616

Concrete bench mark over 3 miles northwest of station and at mileage 27.8 from Medicine Hat, 20 feet northerly from road allowance along north boundary of sec 36-15-11 and 3 feet east of westerly limit of right of way, bolt set vertically No 323 D Elevation 2,467.363

Concrete bench mark over $\frac{1}{2}$ miles southeast of station and at mileage 29.7 from Medicine Hat, 200 feet westerly from road allowance along east boundary of sec 11-15-10 and 6 feet south of northerly limit of right of way 35 feet west of twelfth pole east of mile post 31, bolt set vertically No 226-D Elevation 2,478.729

See Tilley and Sulfield.

Alberyston: 1 acre(s) bench mark over $\frac{1}{2}$ miles southeast of station, 7 feet northeast of southwest limit of C P Ry right of way and 187 feet southeast of bridge over Highway River. Northeast face of pwr. Bolt set horizontally No 61 D Elevation 3,291.188

See High River, Okotoks, and Moseppa.

Alt: Fundamental bench mark about 1 mile east of C N Ry station, on surveyed road through centre of sec 21-28-23 near southeast limit of road, 300 feet east of post and pgs marking first change of direction of the road east of C N Ry tablet in top of pwr No 62-F-2 Elevation 2,605.603

This bench mark was not found during inspection of 1947.

Signal tower at C P R-C N R diamond crossing $\frac{1}{2}$ mile northeast of C N Ry station in northwest concrete foundation wall 14 inches from northerly corner and 1 foot below woodwork bolt set horizontally No 63-F Elevation 2,608.646

Concrete bench mark over 4 miles southeast of C P Ry station and 60 feet east of first pole east of mile post 78 from Coronation 1,375 feet westerly from road allowance along east boundary of sec 21-28-23 and 3 feet north of northerly limit of right of way, tablet in top of pwr No Z-7 Elevation 2,006.619

Dismantled Canadian Northern Ry bridge over Calgary-Tofield line, $\frac{1}{2}$ mile south of C N Ry station on northerly concrete footing of the two which are immediately east of track bolt set horizontally in southwest face, 4 inches from westerly corner and 3 inches below top N 61-F Elevation 2,601.341

This footing is now covered with earth but may be located by means of two anchor bolts which project above the ground.

Concrete bench-mark pier, $\frac{1}{2}$ miles northwest of C P Ry station and 76 feet west of eighth pole east of mile post 82 from Coronation, 210 feet westerly from road allowance along east boundary of sec 3-40-23 and 3 feet south of northerly limit of right of way, tablet in top of pier No. 2-6. Elevation 2,610.317

See Erskine, Tees, Mirror, and Louisa.

Almoe; C N Ry Concrete bench-mark pier, 1 mile east of station and 20 feet west of seventh pole west of mile post 128 from Kindersley, 300 feet east of east mile sign 907 feet westerly from road allowance along east boundary of sec 13-31-13 and 2 feet south of northerly limit of right of way, tablet in top of pier No. S-106. Elevation 2,641.078.

See Bonar and Rehdale.

Alpens; Concrete bench-mark pier, 4 miles north of south switch and 76 feet south of fourteenth pole south of mile post 63 from Carbondale, on top of a shallow cut with a fill extending north and south from it, 48 feet east of track, tablet in top of pier No. V-17. Elevation 2,190.320.

See Newbrook and Ellsott.

Altario; C P Ry Concrete bench-mark pier, $\frac{1}{2}$ miles southeast of station and 10 feet north of second pole north of mile post 49 from Kerrobert or of thirteenth pole north of north boundary of sec 5-34-1, 2 feet east of westerly limit of right of way, bolt set vertically No. 2-44. Elevation 2,342.841.

Concrete bench-mark pier 1 mile west of station and 90 feet east of mile post 53 from Kerrobert, 1,350 feet easterly from road allowance along east boundary of sec 15-34-2, 100 feet east of east end of 800-foot fill and 3 feet north of southerly limit of right of way, bolt set vertically No. 2-43. Elevation 2,375.917

See Compeer and Kinnimur.

Amell; C N Ry Diamond-tied bridge by which Grand Trunk Pacific Ry. used to cross Canadian Northern Ry., 2 miles west of station and immediately north of present C N Ry line at mileage 6-3 from Edson, on north face of north concrete retaining wall at east end of bridge, 4 feet 6 inches from east end of wall and 19 inches below top. Bolt set horizontally No. 82-H. Elevation 3,062.381

See Edson and Buckeridge.

Amse; N A Ry Concrete bench-mark pier, $\frac{1}{2}$ miles southeast of south switch and 12 feet south of second pole north of mile post 260 from Carbondale, 1,220 feet southerly from north boundary of sec 3-80-7 and 51 feet east of track bolt set vertically No. V-71. Elevation 1,599.380.

This pier has obviously heaved. Elevation not precise.

See Kinross and Lenarthur.

Arnedia; Iron pipe with brass cap, at the west end of a shallow cut, about 800 feet east of east switch, 47 feet south of N A Ry track, 80 feet east of fifth pole east of mile post 218 from junction with C N Ry, 95 feet east of a pipe culvert and between Government telephone poles No. 3-1545 and 3-1546. No. 326-H. Elevation 1,942.708.

Iron pipe with brass cap, on high ground, $\frac{1}{2}$ miles west of west switch, 4 feet south of northerly limit of N A Ry right of way, between second and third poles west of mile post 221 from junction with C N Ry and 55 feet east of Government telephone pole No. 3-1537. No. 327-H. Elevation 1,933.535.

See Journeau and Emilda.

Ardenode; C.N.Ry. Concrete bench mark pier $2\frac{1}{2}$ miles east of station and 20 feet east of ninth pole west of mile post 100 from Hanna, 90 feet west of a whistle post for westbound trains. 446 feet east of a trestle over serviceberry creek (the farther east of two trestles about 100 feet apart), 1,485 feet easterly from road allowance along east boundary of sec 23-25-25 and 2 feet south of northerly limit of right of way, tablet in top of pier No. S-152. Elevation 2,852 160.

Concrete bench-mark pier, $1\frac{1}{2}$ miles southwest of station and 57 feet east of thirteenth pole west of mile post 104 from Hanna, 2 feet north of northerly limit of right of way, tablet on top of pier No. S-153. Elevation 3,040 011.

This bench mark was not found during inspection of 1947.

Concrete box culvert, 3 miles west of station and at mileage 105 9 from Hanna, 404 feet easterly from road allowance along east boundary of sec 13-25-26, in north end of culvert, bolt set vertically, 7 inches from east end of coping. No. S-154. Elevation 3,067 813.

See Lysia and Barstree.

Ardenosa; C.N.Ry. Section house 200 feet northwest of northwest switch of passing track, tablet in southeast concrete foundation wall, 2 feet 8 inches from easterly corner and 3 inches below woodwork. No. 58-H-2. Elevation 2,836 566.

This bench mark was not found during inspection of 1947. Foundation was covered by 2 inches of concrete.

See Unas and Bremner.

Ashmont; C.N.Ry. Concrete bench mark pier $\frac{1}{2}$ mile west of station, 3 feet south of northerly limit of C.N.Ry. right of way, 10 feet east of sixth pole west of mile post 104 from St. Paul Junction and 2,360 feet west of road allowance along east boundary of sec 28-59-11. Bolt set vertically. No. DD-21. Elevation 2,128 261.

See Spedden and Abilene.

Asanemo; N.A.Ry. wooden truss bridge over Asanemo R. ver immediately west of station. Tablet in bridge seat of west concrete abutment, 2 feet from south edge and 2 feet east of ballast wall. No. 312-H. Elevation 1,821 769.

Iron pipe with brass cap, 1 mile west of station 43 feet north of N.A.Ry. track and at mileage 182 2 from junction with C.N.Ry., 47 feet east of a trestle and between Government telephone poles Nos. 3-320 and 3-321. No. 313-H. Elevation 1,939 521.

Iron pipe with brass cap on high ground 3 miles west of station, 50 feet north of N.A.Ry. track, 75 feet west of second pole west of mile post 184 from junction with C.N.Ry. and 10 feet east of Government telephone pole No. 3-321. No. 314-H. Elevation 1,932 108.

See Canyon Creek and Kinsao.

Atlee; C.P.Ry. Public school in centre of east concrete foundation wall, bolt set horizontally, 14 inches below woodwork. No. 354-D. Elevation 2,558 058.

Concrete bench-mark pier, $1\frac{1}{2}$ miles west of station and at mileage 46 4 from Empress 200 feet westerly from road allowance along east boundary of sec 1-22-8 and 7 feet south of northerly limit of right of way, bolt set vertically. No. 363-D. Elevation 2,517 781.

See Halsbury and Majestic.

Baintree; C.N Ry Concrete bench mark pier, 1 mile east of station and 15 feet east of nineteenth pole west of mile post 92 from Hanna, 352 feet west of east mile sign, 62 feet east of a private crossing, 880 feet east of trestle over Serviceberry creek and 2 feet south of northerly limit of right of way, tablet on top of pier No. S-150 Elevation, 2,829.082.

Concrete arch culvert, $\frac{3}{4}$ miles northeast of station and at mileage 90.76 from Hanna, in top of coping on west end of culvert, 10 inches from north end of same, bolt set vertically No. S-148 Elevation, 2,800.807

Concrete bench-mark pier $\frac{3}{4}$ miles southwest of station and 60 feet north of ninth pole south of mile post 96 from Hanna, 975 feet north of C.P.R.-C.N.R. diamond crossing, 1,800 feet northerly from road allowance along north boundary of sec 21-25-24 and 2 feet east of westerly limit of right of way, bolt set vertically No. S-151 Elevation, 2,910.402

See Ardenode and Rockyford

Balzac; C.P.R. Concrete arch culvert, $\frac{1}{2}$ mile south of station and 40 feet north of mile post 13 from Twelfth Street east, Calgary, tablet on top of coping on east end of culvert, 18 inches from north end of coping. No. H-9 Elevation, 3,529.706.

See Beddington and Airdrie

Banff; C.P.R. bridge over Echo River, 900 feet west of station. East concrete abutment, north end of west face, 21 inches above bridge seat. Bolt set horizontally No. 240-C Elevation, 4,531.265.

High school West wall, in west face of concrete s.l. of fifth window south of northerly entrance. Bolt set horizontally No. 241-C Elevation, 4,540.963

See Bankhead and Sawback

Bankhead; Triple concrete box culvert under C.P.R., $\frac{3}{4}$ miles southeast of station and at mileage 76.2 from Calgary. Southeast face of southwest head-wall, 6 inches below top. Bolt set horizontally No. 238-C Elevation, 4,453.791.

C.P.R. steel truss bridge over Cascade River $1\frac{1}{2}$ miles east of station and at mileage 78.3 from Calgary. South face of east stone abutment, first course below bridge seat. Bolt set horizontally No. 239-C Elevation 4,543.088.

See Duthie and Banff

Bantry; C.P.R. Concrete bench-mark pier 1 mile northwest of station and between third and fourth poles east of mile post 60 from Medicine Hat, 135 feet west of a whistle post for eastbound trains and 6 feet south of northerly limit of right of way bolt set vertically No. 218-D Elevation 2,506.029.

See Brooks and Tilley

Barde; C.N Ry Alberta Pool elevator, tablet on north concrete foundation wall 18 inches from northeast corner and 8 inches below metal sheathing. No. 75-F-2 Elevation 2,401.186

Concrete bench-mark pier $1\frac{1}{2}$ miles south of station and 36 feet north of first pole south of mile post 7 from Tofield, 135 feet southerly from road allowance along north boundary of sec 34-49-19 and 6 feet east of westerly limit of right of way, bolt set horizontally in north side of pier No. 75-F Elevation 2,384.611

See Tofield and Kingman

Barlow; C.N Ry See Barlow Junction, B.M. No. S-172

Barlow Junction: C N Ry. Steel truss bridge over C P Ry irrigation canal, $\frac{1}{2}$ mile west of station and at mileage 132 8 from Hanna, in top of south concrete retaining wall at east end of bridge 22 inches from east end of wall, bolt set vertically. No 8-172. Elevation 3,409.855

Plate girder bridge over Bow River $\frac{1}{2}$ miles west of station and at mileage 133 4 from Hanna, in top of south concrete retaining wall at east end of bridge, bolt set vertically directly above south end of abutment. No 8-173. Elevation 3,399.063.

See Calgary and Janet.

Barnegat: N A Ry. Concrete bench-mark pier, $\frac{1}{2}$ mile north of station and 30 feet south of sixth pole north of mile post 122 from Carbondale, $\frac{1}{2}$ mile southerly from road allowance along east boundary of sec 24-67-13 and 3 feet west of easterly limit of right of way, tablet in top of pier. No V-34. Elevation 1,830.873.

Concrete bench-mark pier $2\frac{1}{2}$ miles west of station and 67 feet west of eighth pole west of mile post 119 from Carbondale near the middle of a curve, $\frac{1}{2}$ mile easterly from road allowance along east boundary of sec 11-67-13 and 3 feet south of northerly limit of right of way, tablet in top of pier. No V-33. Elevation 1,870.806.

See Tweedie and Lac la Biche.

Barrow: C P Ry. section house 600 feet north of station. Front or east concrete foundation wall, 10 feet from northeast corner and 6 inches below imitation brick sheathing. Bolt set horizontally. No 76-D. Elevation 3,152.503

See Carmangay and Nobleford.

Bashaw: C N Ry. Alberta Pool elevator in west concrete foundation wall, 7 inches from northwest corner and 21 inches below metal sheathing, bolt set horizontally. No 68-F. Elevation 2,601.352

Concrete bench-mark pier $4\frac{1}{2}$ miles southwest of station and at ninth pole south of mile post 67 from Tofield or fifteenth pole north of road allowance along north boundary of sec 12-41-22 4 feet east of westerly limit of right of way, bolt set horizontally in north side of pier. No 64-F. Elevation 2,630.287

This bench mark was not found during inspection of 1947.

See Doreilee and Mirror.

Bassano: C P Ry. Fundamental bench mark in the eastern outskirts of the town, 4 feet west of east limit of road allowance along east boundary of sec 17-21-18, which is the first road crossing the railway east of station. The pier is 1,227 feet north of northerly limit of right of way and 1,704 feet south of northeast section corner, tablet in top of pier. No 307-D-2. Elevation 2,607.346

Post office north side wall, in first pilaster from northwest corner, bolt set horizontally in third course of stonework below water table. No 306-D. Elevation 2,600.794

Plate girder bridge over irrigation canal 1 mile east of station and at mileage 117 6 from Empress, in north face of west concrete abutment, 3 feet above bridge seat, bolt set horizontally. No 307-D. Elevation 2,592.845.

Concrete bench mark pier, 5 miles southeast of station and at mileage 92 5 from Medicine Hat, 12 feet westerly from road allowance along north boundary of sec 36-20-18 and 6 feet north of southerly limit of right of way, bolt set vertically. No 308-D. Elevation 2,588.811

See Granta, Lethbridge, and Countess.

Battle: C N Ry. See Camrose, B M No 69-F-3, and Duhamel, B M No 69-F

Bay Tree; Iron pipe with brass cap, 2 miles west of Bay Tree post office, 215 feet west and 66 feet north of northeast corner section 4-79-13, near north fence line of road allowance. No. 698-H Elevation 2,126.790

Iron pipe w/c. brass cap, near Bay Tree post office and general store, 66 feet north of northeast corner section 2-79-13. No. 698-H Elevation 2,115.380

Iron pipe with brass cap, 1 mile north and 14 miles east of Bay Tree post office, 66 feet north of north quarter corner section 7-79-12. No. 700-H Elevation 2,185.434

Iron pipe with brass cap, 1 mile north and 4 miles east of Bay Tree store and post office, near south fence line of road allowance, 160 feet west of northeast corner section 9-79-12. No. 701-H Elevation 2,187.617

See Bruar Ridge and Gordondale

Bearspaw; Concrete box culvert under C P Ry., 1½ miles southeast of station and at mileage 12.2 from Calgary, at a disused gravel washing plant. North end of west face, 10 inches below top Bolt set horizontally No. 230-C. Elevation 3,598.697

See Robertson and Glenbow

Beaverhill; C.N Ry. See Bruderheim, B.M. No. L-10

Beaverlodge; Iron pipe with brass cap 2½ miles southeast of station, 3 feet north of southerly limit of N.A. Ry. right of way and between first and second poles west of mile post 76 from Ryecroft 100 feet west of road allowance along east boundary of sec. 36-71-10. No. 403-H Elevation 2,368.308.

Iron pipe with brass cap, ½ mile southeast of station and about 1,900 feet east of N.A. Ry. on north boundary of sec. 35-71-10, 144 feet west of northeast corner of section No. T-67 Elevation 2,419.287

Public school. Tablet in front or northwest concrete foundation wall, 15 inches northeast of porch at main entrance and 6 feet 6 inches below brick-work No. 404-H Elevation 2,385.387

Iron pipe with brass cap, 2½ miles northwest of station, on east boundary of sec. 16-72-10, 176 feet south of ½ sec. corner, 30 feet south of intersection of N.A. Ry. track and at foot of fill (18 feet southwest of track) No. T-68. Elevation 2,391.675.

See Hualien and Albright

Beddington; C P Ry. Boulder, 8 feet by 10 feet, at easterly limit of right of way, 3½ miles south of station, 20 feet south of fourth pole north of mile post 5 from Twelth Street east, Calgary, and 1,150 feet north of Calgary-Edmonton Highway crossing, top of broken shank of tablet set vertically in top of rock, 8 inches west of easterly fence of right of way. No. H-7. Elevation 3,440.271

See Calgary and Balsac.

Belham; N.A. Ry. Concrete bench-mark pier, 2½ miles northeast of north switch and 10 feet north of first pole south of mile post 164 from Carbondale, 1,120 feet southerly from north boundary of sec. 1 73-10 and 41 feet west of track, bolt set vertically No. V-45. Elevation 2,162.321

Concrete bench-mark pier, 1½ miles southwest of south switch, 10 feet north of mile post 160 from Carbondale and 44 feet east of track, bolt set vertically No. V-44. Elevation 2,163.298

See Phalomena and Margie.

Belzeker; C.N Ry. Bridge over C.P. Ry., 2½ miles southwest of C.N Ry. station and at mileage 94.5 from Mirror, in north face of west concrete abutment,

18 inches from west face and 2 feet 9 inches below C N Ry track level, bolt set horizontally No. 47 F Elevation 3,033 624.

Bolt is loose. Elevation is only approximate
See Granger and Irricana.

Bellis: Concrete bench-mark pier 2 miles east of station 2 feet south of northerly limit of C N Ry right of way and 15 feet east of fifth pole west of mile post 78 from St Paul Junction near the west end of a curved fit. Bolt set vertically No. DD-13 Elevation 2,154 682

United Church East side wall in concrete foundation 18 inches from rear corner and 2 feet 1 inch below woodwork Bolt set horizontally No. DD-14 Elevation 2,194 222

Concrete bench-mark pier 2 miles east of station 3 feet north of southerly limit of C N Ry right of way, 15 feet east of third pole west of mile post 82 from St Paul Junction and 560 feet west of road allowance along east boundary of sec 25-59-15. Bolt set vertically No. DD-15 Elevation 2,232 344

See Edwand and Vilna.

Bellroy: Iron pipe with brass cap, 24 miles east of station 5 feet north of southerly limit of N A Ry right of way and 72 feet west of eleventh pole east of mile post 327 from junction with C N Ry near the west end of a shallow cut. No. 368-H Elevation 1,888 997

Iron pipe with brass cap, $\frac{1}{2}$ mile west of station, 4 feet south of northerly limit of N A Ry right of way and at sixth pole east of mile post 330 from junction with C N Ry, near the east end of a shallow cut. No. 369-H Elevation 1,889 034.

See Odessa and Wanham

Benton: C N Ry Concrete bench-mark pier 1 mile west of station and 62 feet west of fourth pole east of mile post 62 from Kindersley 106 feet west of west mile sign 1,140 feet easterly from road allowance along east boundary of sec 32-27-3 and 1 foot south of northerly limit of right of way tablet in top of pier No. S-84 Elevation 2,463 981

Concrete bench-mark pier, 3 miles northeast of station and 6 feet west of eighteenth pole east of mile post 58 from Kindersley 2,030 feet westerly from road allowance along east boundary of sec 12-28-3 and 2 feet north of southerly limit of right of way tablet in top of pier No. S-82 Elevation 2,444-603.

See Oyen and Sibbald

Berwyn: Iron pipe with brass cap, 1 $\frac{1}{2}$ miles east of station, 3 feet south of northerly limit of N A Ry right of way 55 feet west of sixteenth pole east of mile post 70 from Wmagni and 200 feet westerly from north boundary of Peace River Crossing Indian Reserve No. 448-H Elevation 2,106 286.

Public school (S D No 3237) Front of building, tablet in north concrete foundation wall of porch at southerly entrance 2 feet from north-west corner of porch and 1 foot below woodwork No. 440-H Elevation 2,139-858.

Iron pipe with brass cap, 2 miles west of station, 3 feet north of southerly limit of N A Ry right of way, 25 feet west of seventh pole west of mile post 73 from Wmagni and 60 feet west of road allowance along east boundary of sec 26-82-25. No. 450-H Elevation 2,125 778.

See Grinshaw and Brownale

Beynam: C N Ry Concrete bench-mark pier 1 $\frac{1}{2}$ miles northeast of station and 11 feet east of fourth pole east of mile post 67 from Hanna, 446 feet west

of trestle over Rosebud River 345 feet east of east switch, 214 feet east of a whistle post for eastbound trains and 2 feet south of northerly limit of right of way tablet in top of pier No. S-137. Elevation 2,387.449

Iron pipe with brass cap 1 mile, or 2½ miles west of station and 2 feet south of northerly limit of right of way tablet in top of pier No. S-138. Elevation 2,484.062

This bench mark was not found during inspection of 1947.

See Rosebud and Wayne.

Beaumont: Iron pipe with brass cap, 3½ miles southwest of ferry over Big Smoky River and 1½ miles east of Beaumont general store and post office 78 feet east of east wall of farmhouse owned by R. J. Galant, at a fence corner on north limit of highway No. 647-H. Elevation 2,061.713

Farmhouse owned by Mr. F. Acheson northwest quarter sec. 10-72-3, about ½ mile west of Beaumont general store and post office. Tablet in east concrete foundation wall 6 feet from northeast corner of building and 8 inches below woodwork. No. 648-H. Elevation 2,145.449

Iron pipe with brass cap just east of farmhouse owned by Harry Card 3 miles west of Beaumont general store and post office 108 feet west of northerly end of road between telephone poles 4-2571 and 4-2572, 400 feet east of farmhouse 2 feet south of north fence line of highway No. 649-H. Elevation 2,158.527

Roman Catholic Church on southeast quarter sec. 13-72-4 4½ miles west of Beaumont general store and post office. Tablet in west concrete foundation wall 1 story 30 inches north of north transept wall, 15 inches below top of wall. No. 650-H. Elevation 2,158.745

Iron pipe with brass cap opposite barn use owned by T. L. Schultz, 8½ miles west of Beaumont general store and post office 87 feet west of driveway entrance to farm 54 feet west of telephone pole No. 4-2684, on fence line along north limit of highway No. 651-H. Elevation 2,282.741

Bickerdike: Concrete bench mark pier 2½ miles west of station 48 feet south of C.N.Ry. track 330 feet west of mile post 12 from Edson 330 feet east of a jog in right of way fence and at the west end of a long clay cut. North face of pier bolt set horizontally. No. 84-H. Elevation 3,164.207

See Ansell and Galloway

Bilbow, N.A.Ry. See Venice B.M. No. V-28.

Bindloss: C.P.Ry. Concrete bench-mark pier, 1½ miles east of station and 360 feet west of mile post 12 from Empress near the middle of a curve and 3 feet south of northerly limit of right of way bolt set vertically. No. 362-D. Elevation 2,112.630

Concrete bench mark pier, 3½ miles southwest of station and at mileage 16 7 from Empress at the north end of a long deep clay cut and 4 feet east of westerly limit of right of way bolt set vertically. No. 361-D. Elevation 2,101.773

See Cavendish and Sharow

Bircham: C.N.Ry. See Grainger B.M. No. 49-F

Blissell: C.N.Ry. See Union Junction B.M. No. U-1, and Arteson B.M. 63-H

Bittern Lakes: Concrete bench-mark pier 2½ miles east of station 3 feet south of northerly limit of C.P.Ry. right of way 10 feet east of first pole east of mile post 78 from Hardisty and 580 feet west of road allowance along east boundary of sec. 32-46-21. Bolt set vertically. No. 673-C. Elevation 2,455.067

Concrete bench-mark pier 2 miles southwest of station 3 feet northwest of southeast limit of C P Ry right of way 22 feet northeast of fifth pole southwest of mile post 82 from Hardisty and 130 feet northeast of road allowance along east boundary of sec 27-46-22 Bolt set vertically No. 676-C Elevation 2,442.830

See Erwick and Gwynne.

Blackfalds: Concrete box culvert under C P Ry $\frac{5}{8}$ miles south of station and at mileage 6.2 from Red Deer $\frac{1}{2}$ mile northerly from road allowance along east boundary of sec 4-38-27 Tablet in top of east headwall 5 inches from north end No H-30 Elevation 2,880.923

C P Ry plate girder bridge over Blindsight River $\frac{3}{4}$ miles south of station and at mileage 9.3 from Red Deer 300 feet northwest of crossing of Calgary Edmonton highway Tablet in bridge seat of southeast concrete abutment 3 feet 10 inches from southwest (upstream) edge and 1 foot from north west edge No H-31 Elevation 2,782.966

See Red Deer and Lacoube.

Blackfalds: Old public school a frame building immediately south of new brick building. In concrete foundation of north side wall of front section, 2 feet from northeast corner and 15 inches below woodwork. Bolt set horizontally No. 63-D Elevation 3,284.569

See Maxeppa and Brant.

Blairmore: C P Ry Plate girder bridge over Lynn creek, $\frac{1}{2}$ mile east of station and at mileage 87.8 from Lethbridge to north face of east concrete abutment 22 inches below bridge seat, bolt set horizontally No 103-D Elevation 4,223.761

See Frank and Coleman.

Blawsky: Concrete bench-mark pier $\frac{3}{4}$ miles east of station 3 feet south of northerly limit of N A Ry right of way and at mileage 88.8 from Winagami, 100 feet east of road allowance along east boundary of sec 1-32-2 Tablet in top of pier No 456-H Elevation 3,111.226

Iron pipe with brass cap $\frac{1}{2}$ mile east of station 3 feet south of northerly limit of N A Ry right of way and 150 feet west of bridge over Chocolate creek at mileage 91.2 from Winagami N 457-H Elevation 2,125.177

See Whitelaw and Fairview.

Bon Accord: N A Ry Concrete bench-mark pier, $\frac{1}{2}$ mile southwest of station and 29 feet south of fourteenth pole south of mile post 8 from Carbondale, 1,230 feet southerly from road allowance along east boundary of sec 12-56-24, opposite second telegraph post south of road allowance 3 feet east of westerly limit of right of way 45 feet west of centre line of track and on the south slope of a hill, bolt set vertically No V-2 Elevation 2,294.817

See Carbondale and Federah.

Bonavista: C N Ry Concrete bench-mark pier, $\frac{1}{2}$ mile northeast of east switch and 12 feet north of fifth pole south of mile post 130 from Kindersley, 40 feet south of yard limit sign, 2,380 feet southerly from road allowance along north boundary of sec 9-21-13 and 2 feet east of westerly limit of right of way tablet in top of pier No 9-107 Elevation 2,716.196

See Hanna and Aloess.

Bondues: N A Ry Concrete bench-mark pier 1 mile east of station and 34 feet east of first pole east of mile post 79 from Carbondale 1,240 feet easterly from road allowance along east boundary of sec 8-65-18 and 4 feet south of northerly limit of right of way, tablet in top of pier No V-21 Elevation 2,046.043

Concrete bench-mark pier, $\frac{1}{2}$ miles northeast of station, 20 feet east of twelfth pole west of mile post 83 from Carbondale and 49 feet south of track, bolt set vertically No. V-22. Elevation 2,020 254

See Boyle and Caslen

Borradale; C N Ry Concrete bench-mark pier, 900 feet east of station and opposite second pole west of mile post 117 from North Battleford, 430 feet east of east switch of passing track and 4 feet north of southerly limit of right of way, tablet in top of pier No L-38. Elevation 2,031 298

Iron pipe filled with concrete $\frac{1}{2}$ miles east of station and 10 feet west of third pole east of mile post 117 from North Battleford, 466 feet westerly from road allowance along east boundary of sec 29-50-5 and 33 feet north of track, bolt set vertically No L-38. Elevation 2,036 447

Iron pipe filled with concrete, $\frac{3}{4}$ miles northeast of station and 35 feet west of sixth pole east of mile post 114 from North Battleford, 610 feet easterly from road allowance along north boundary of sec 35-50-5 and 2 feet north of southerly limit of right of way, bolt set vertically No. L-40. Elevation 2,004 431

Concrete bench-mark pier, 70 feet west of west switch of passing-track and midway between thirteenth and fourteenth poles east of mile post 118 from North Battleford, 4 feet south of northerly limit of right of way, tablet in top of pier No L-37. Elevation 2,042 640

Iron pipe filled with concrete $\frac{1}{2}$ miles west of station and 30 feet east of seventh pole east of mile post 120 from North Battleford, 1,290 feet east of a whistle post for westbound trains and 3 feet south of northerly limit of right of way bolt set vertically No L-38. Elevation 2,028 064

See Vermilion and Islay

Botha; C P Ry Bank of Montreal, in north concrete foundation wall, 1 foot from northwest corner and 2 feet 2 inches below woodwork, bolt set horizontally No Z-14. Elevation 2,664 451

See Gadsby and Stettler

Bowden; C P Ry Public school, in stone foundation of north side wall, 13 inches from northwest corner and 2 feet 6 inches below brickwork, bolt set horizontally No H-22. Elevation 3,282 448

Double concrete box culvert, $\frac{1}{4}$ miles south of station and at mileage 65 6 from Twelfth Street east, Calgary, tablet in top of coping on east end of culvert, 8 inches from south end of coping No H-21. Elevation 3,234 193

See Olds and Innisfail

Bowell; C.P Ry Public school in concrete foundation of northeast side wall, midway between two basement windows and 18 inches below woodwork, bolt set horizontally No 329-D. Elevation 2,581 550

Concrete bench-mark pier, 3 miles southeast of station and at mileage 11 7 from Medicine Hat, 22 feet easterly from road allowance along east boundary of sec 33 13-7 and 6 feet north of southerly limit of right of way, bolt set vertically No. 329-D. Elevation 2,530 616

Concrete bench-mark pier $\frac{5}{4}$ miles northwest of station and opposite east switch of Dennis passing-track, at first pole east of mile post 20 from Medicine Hat and 6 feet north of southerly limit of right of way bolt set vertically. No. 328-D. Elevation 2,452 013

See Suffield and Redcliff

Bow Island; C.P.Ry. Concrete arch culvert $\frac{1}{2}$ mile east of station and at mileage 40.3 from Dunmore, the farther east of two culverts in south face of culvert, immediately above west wing-wall, bolt set horizontally. No. 178-C. Elevation 2,597.567

See Winnifred and Burdett.

Boyle; N.A.Ry. Concrete bench-mark pier, 2 miles northeast of station and 59 feet west of thirteenth pole west of mile post 75 from Carbonear, 370 feet west of a private crossing, $\frac{1}{2}$ mile easterly from east boundary of sec 10-65-19 and 4 feet north of northerly limit of right of way, tablet in top of pier No. V-20. Elevation 2,079.380

See Ellscoot and Bondass.

Brabourn; Iron pipe with brass cap. 12 miles north of north switch. 47 feet west of N.A.Ry. track, 36 feet south of third pole south of mile post 17 from Ryecroft and 17 feet south of the farther south of two section houses. No. 383-H. Elevation 2,387.029

Iron pipe with brass cap, $\frac{1}{2}$ mile south of south switch. 47 feet east of N.A.Ry. track and at sixth pole north of mile post 20 from Ryecroft, near the south end of a shallow cut at east side of track. No. 384-H. Elevation 2,492.040.

Iron pipe with brass cap. 34 miles south of south switch. 40 feet west of N.A.Ry. track and at fifth pole north of mile post 23 from Ryecroft, at the south end of a shallow curved cut. No. 385-H. Elevation 2,624.081

See Woking and Webster.

Brent; Concrete bench-mark pier 2 $\frac{1}{2}$ miles northwest of station. 8 feet east of westerly limit of C.P.Ry. right of way and at mileage 67.3 from Charlottetown, 10 feet north of road allowance along north boundary of sec 20-18-26. North face of pier. Bolt set horizontally. No. 64-D. Elevation 3,301.139

C.P.Ry. station. Rear or southwest concrete foundation wall, 2 feet 9 inches from northerly corner and 7 inches below woodwork. Bolt set horizontally. No. 65-D. Elevation 3,268.344.

See Blackie and Ensign.

Bremner; C.N.Ry. Concrete bench-mark pier 1 mile southeast of station and at twelfth pole west of mile post 113 from Wainwright. 830 feet east of a trestle and 5 feet south of northerly limit of right of way, tablet in top of pier. No. 55-H-3. Elevation 2,272.829.

Concrete bench-mark pier, 2 miles northwest of station and 25 feet west of tenth pole west of mile post 110 from Wainwright, 108 feet east of a private crossing and 62 feet south of northerly limit of right of way (no line with telegraph poles), bolt set horizontally in northeast side of pier. No. 56-H. Elevation 2,211.282.

See Ardrossan and Clover Bar.

Briar Ridge; Iron pipe with brass cap at bridge over Poor Coups Creek, known as Riley Crossing, in fence angle at northeast corner of a garden plot owned by John Bridgeman, 125 feet south of bridge and 75 feet east of centre line of road. No. 698-H. Elevation 1,895.415.

Farmhouse "Hillview Farm" owned by John Sutherland, $\frac{1}{2}$ mile east of Briar Ridge post office. Tablet in east concrete foundation wall of house, 3 feet from northeast corner and 6 inches below woodwork. No. 699-H. Elevation 2,163.348.

Iron pipe with brass cap, 2 miles east of Briar Ridge post office, 128 feet north of northeast corner section 19-78-13, 2 feet west of fence line. The top of pipe is flush with the ground. No. T-87. Elevation 2,163.706.

Farmhouse owned by Arthur Bourque, on northeast quarter section 31-78-13 3½ miles east of Bruderheim post office and on the westerly side of Horse Shoe Creek. Tablet in east concrete foundation, 18 inches from northeast corner of building and 1 foot below woodwork. No. 697-H. Elevation 2,129.046.

See Bay Tree

Brockburn; C P Ry. See Robertson B.M. No. 219-C

Brockets; C P Ry. Steel truss bridge over Pincher creek, 1½ miles west of station and at mileage 53.7 from Lethbridge, in north end of east face of west concrete abutment, 3 feet 2 inches above bridge seat, bolt set horizontally. No. 93-D. Elevation 3,505.895.

See Pengun and Pincher

Brookes; C P Ry. Concrete box culvert, 2½ miles southeast of station and at mileage 84.6 from Medicine Hat, 365 feet easterly from road crossing, in centre of northeasterly face, 2 feet below top, bolt set horizontally. No. 316-D. Elevation 2,447.974.

Inverted siphon carrying "Brooks Arquardt" under railway, 3½ miles southeast of station in north face of concrete wall of siphon, on south side of track, bolt set horizontally 33 feet from track, 15 inches above ground and 10 inches below a stone mounting. No. 317-D. Elevation 2,479.918. Small concrete arched culvert ½ mile west of station and at mileage 87.6 from Medicine Hat in east face of a stonewall, 10 inches below top, bolt set horizontally. No. 315-D. Elevation 2,484.584.

Highway bridge over irrigation canal, 4½ miles west of station and opposite second pole west of mile post 71 from Medicine Hat, 100 yards south of the railway, in west face of north concrete abutment, 8 inches below bridge seat, bolt set horizontally. No. 214-D. Elevation 2,543.808.

Road and bridge are not now in use

See Cassile and Banty

Brownvalley; Iron pipe with base cap, 2 miles east of station, 3 feet south of northerly limit of N A Ry right of way, 20 feet west of tenth pole west of mile post 75 from Winagami and 100 feet west of road allowance along east boundary of sec 28-82-25. No. 451-H. Elevation 2,147.131.

Iron pipe with base cap, 1 mile west of station, 3 feet north of southerly limit of N A Ry right of way, 20 feet west of thirteenth pole west of mile post 78 from Winagami and 100 feet west of road allowance along east boundary of sec 24-82-26. No. 452-H. Elevation 2,126.177.

See Berwyn and Whitelaw

Bruderheim; C N Ry. United Grain Growers' elevator in north concrete foundation wall of main portion of building, 6 inches from northeasterly corner and 15 inches below woodwork, bolt set horizontally. No. L-9. Elevation 2,076.408.

Iron pipe filled with concrete, 3½ miles southeast of station and 75 feet east of third pole east of mile post 96 from Vermilion, 920 feet westerly from road allowance along east boundary of sec 28-55-20 and 3 feet north of southerly limit of right of way, bolt set vertically. No. L-10. Elevation 2,140.620.

See Scotford and Lamont

Buffalo; C P Ry. Concrete bench-mark pier 3½ miles east of station and at mileage 29.7 from Empress, 20 feet easterly from road allowance along east boundary of sec 27-21-8 and 6 feet south of southerly limit of right of way, bolt set vertically. No. 257-D. Elevation 2,293.271.

Concrete bench-mark pier 1 mile west of station and at mileage 34 1 from Empress 1,680 feet west of road allowance along east boundary of sec 25-21-6 and 5 feet north of southerly limit of right of way bolt set vertically No. 356-D Elevation 2,332-245.

See Majestic and Cavendish

Bull's Head; C P Ry See Dauntless, B M No. 171-C and Sevenpersons, B M No. 172-C.

Burbank; C N Ry See Blackfields, B M No. H 31

Burdett; C P Ry United Church, in west concrete foundation wall, 3 feet 3 inches from southwest corner and 8 inches below woodwork, bolt set horizontally No. 181-C Elevation 2,576 153

F. A. Lumbard's stationery and drug store, in north concrete foundation wall, 4 feet 7 inches from northeast corner and 21 inches below woodwork, bolt set horizontally No. 180-C Elevation 2,574-159

See Bow Island and Grassy Lake

Burnside; Concrete arch culvert under C P Ry 1½ miles west of station and at mileage 80 9 from Lethbridge, opposite a stone house at north side of highway West face of south headwall, 1 foot below top. Bolt set horizontally No. 100-D Elevation 3,988 201

See Landbreek and Hillcrest

Bushy; Concrete bench mark pier 1½ miles south of station, 2 feet east of westerly limit of N A Ry right of way, 87 feet north of fourth pole south of mile post 34 from junction with C N Ry and 20 feet south of Government telephone pole No. 1-1327 near the centre of a curve. Tablet in top of pier No. U-10. Elevation 2,368 650.

Concrete bench mark pier 3 miles south of station 3 feet west of easterly limit of N A Ry right of way 66 feet north of fifth pole north of mile post 38 from junction with C N Ry 50 feet south of Government telephone pole No. 1-1472 and ½ mile north of road allowance along north boundary of sec 31-57-28. Tablet in top of pier No. U-11. Elevation 2,330 912

See Mearns and Pickardville

Buster; C N Ry Section house in west concrete foundation wall 15 inches from northwest corner and 12 inches below stucco, bolt set horizontally No. 29-H Elevation 2,014 108

See Chauvin

Calgary; Foundation of stone work in Catta park behind the public library on a line joining the centre of the rear wall of the library and the South African war memorial 130 feet east of the latter, tablet in top of pier No. 810-C. Elevation 3,439-713.

Public library in stone parapet at south side of steps at main entrance, on a line joining fifth pier of rear wall and midway between north and south edges of parapet, bolt set vertically Elevation 3,442-183

Established by City Engineer's Department

City hall, in south wall, 8 inches from southeast corner and seventh course of stonework below water table, bolt set horizontally No. 81-D Elevation 3,427 981

City hall, tablet in top of stone parapet at head of basement stairway at rear of building, 1 foot east of main wall No. H 3 Elevation 3,430-011

Court house in west wall, 1 foot from northwest corner and third course of stonework below water table, bolt set horizontally No. 80-D Elevation 3,463-199.

C P Ry station in west wall 3 feet from southwest corner 40 feet east of east wall of Palliser hotel and second course of stonework above platform bolt set horizontally No. 217 C Elevation 3,440.703

Building at south west corner of Eighth Avenue and First Street east, is south of the foundation wall 8 feet from southeast corner and 17 inches above pavement of road bolt set horizontally N. H. 2 Elevation 3,437.256

Langstrat bridge over Bow River in Fourth street east tablet on top of east concrete wing-wall at north end of bridge 10 inches from northeast edge and 10 inches from northwest edge of wall No. H. 4 Elevation 3,439.227

Plate granite bridge pier mounted on Bow River on C N Ry freight spur line $\frac{1}{2}$ mile east of city hall in south end of west face of east concrete abutment 9 inches above bridge seat bolt set horizontally No. 30-F Elevation 3,415.749

Steel truss bridge over Bow River on C N Ry freight spur line $\frac{1}{2}$ miles southeast of city hall and immediately upstream from C P Ry main line bridge in north end of west face of east concrete abutment bolt set horizontally above bridge seat No. 40-F Elevation 3,400.482

C P Ry bridge over Bow River in Langstrat Edmonton or $\frac{1}{2}$ miles northeast of C P Ry station Northern concrete pier shank of tablet on bridge seat of steel truss span 5 feet from pointed downstream end of pier and 15 inches east of bed plate of truss No. H. 6 Elevation 3,407.563

Head tablet on a pier of the arch have been broken off hence elevation is recoverable only approximately

Calgary Macleod highway bridge over C N Ry $\frac{1}{2}$ mile southeast of C N Ry station and at mile post 138 from Hanna, first concrete pedestal north of track at a northeast end of bridge bolt set vertically in top of pedestal 6 inches from northeast edge and 6 inches from southwest edge No. S-175 Elevation 3,441.193

C N Ry bridge over C P Ry, Calgary Macleod line $\frac{1}{2}$ miles southeast of C P Ry station in concrete footing of steel columns at south side of bridge and east side of C P Ry track bolt set horizontal v in west face of footing 3 feet 2 inches below top No. 32-D Elevation 3,418.841

Eighth Street west subway under C P Ry in south face of concrete retarding wall at north side of track and east side of street 6 inches below top of concrete and 17 inches north of north railing of bridge bolt set horizontally No. 218-C Elevation 3,448.844

See Robertson Turner Hubalta Beddington and Barlow Junctions.

Campbell: Concrete bench-mark pier $\frac{1}{2}$ mile south of south switch 3 feet east of westerly limit of N A Ry right of way 35 feet south of stanchion pole north of mile post 3 from junction with C N Ry and 215 feet north of road allowance along north boundary of sec 38-52-25 Tablet on top of pier No. U-2 Elevation 3,269.031

Concrete bench mark pier 3 miles north of north switch 3 feet east of westerly limit of N A Ry right of way 20 feet south of stanchion pole north of mile post 7 from junction with C N Ry and 270 feet north of centre line of crossing of Fort Saskatchewan & Alberta road Tablet on top of pier No. U-3 Elevation 3,217.505

See Union Junction and Carbondale

Commiss: Fundamental bench mark $\frac{1}{2}$ miles west of C P Ry station and $\frac{1}{2}$ mile south of railway 128 feet south of northeast corner of sec 32-46-30 and 4 feet east of west limit of road allowance tablet in top of pier No. 70-F-2 Elevation 3,457.888

J. W. Russell school, north wall, to north face of concrete sill of fourth basement window from northeast corner of building, 14 inches from east end of sill and 3 inches below surface, bolt set horizontally No. 71-F Elevation 2,427.001

Diamantized signal tower beside C N Ry. track, at junction with Camrose-Edmonton line 2½ miles north of C N Ry. station, in northwest face of concrete foundation, 8 feet from westerly corner and 3 inches below top, bolt set horizontally No. 72-F Elevation 2,413.935

Concrete footing of stonework at west side of C N Ry. track 1 mile south of station and at mileage 49 1 from harmonic tablet in side of footing facing track 6 inches below top N 69° 4' 2" Elevation 2,416.997

See Erwick, Dinant, and Duhamel.

Camrose: Double concrete box culvert under C P Ry. 1,000 feet northeast of station. Southeast face of northeast headwall 6 inches below top. Bolt set horizontally N 235-C Elevation 4,293.870

Double concrete box culvert on C P Ry. 2½ miles northwest of station and at an edge 60 0 from Calgary. Southeast face of northeast headwall, 6 inches below top. Bolt set horizontally N 236-C Elevation 4,339.352

See Exshaw and Duthil.

Camell: C N Ry. See Union Junction B.M. No. U-1

Canyon Creek: Iron pipe with brass cap, 2½ miles east of station 300 feet east of Wildwater flag stop, 43 feet north of N A Ry. track, 62 feet west of ninth pole east of mile post 175 from junction with C N Ry. on, between Government telephone poles Nos. 3-72 and 3-73. No. 310-H Elevation 1,909.600.

Iron pipe with brass cap ½ m. east of station 3 feet north of southerly limit of N A Ry. right of way, 68 feet west of first pole west of mile post 177 from junction with C N Ry. and 123 feet east of a st. sage plant. No. 311-H Elevation 1,926.533.

See Wagner and Assinewa.

Carbondale: Concrete bench-mark pier 1 mile northwest of station 3 feet northeast of southwest limit of N A Ry. right of way 80 feet northwest of seventh pole northwest of mile post 15 from junction with C N Ry. and 1,500 feet northwest of road allowance along east boundary of sec 18-55-24. Tablet in top of pier No. U-5. Elevation 2,266.035

Concrete bench mark pier, 4 miles west of station and 70 feet south of second pole north of mile post 4 2,243 feet southwest from road allowance along east boundary of sec 34-55-24 on, 3 feet east of westerly limit of the former N A Ry. right of way, 1,230 feet south of a private crossing tablet in top of pier No. V-1. Elevation 2,273.275

See Campbell, Morinville, and Bon Accord.

Cardiff: N A Ry. See Carbondale B.M. No. U-4

Carmangay: Concrete bench-mark pier, 4½ miles north of station, 6 feet east of westerly limit of C P Ry. right of way and 38 feet north of second pole south of mile post 34 from Coalhurst. North face of pier. Bolt set horizontally No. 72-D Elevation 3,161.107

C P Ry. station. Rear or east concrete foundation wall 4 feet from southeast corner and 9 inches below woodwork. Bolt set horizontally No. 72-D Elevation 3,081.623.

Public school. Bolt set horizontally at centre of north face of concrete parapet at north side of main entrance No. 74-D Elevation 3,080.917

See Champion and Barons.

Carrot Creek; Concrete foundation of demolished C.N Ry. water tank. 2½ miles west of station and at mileage 105 6 from Edmonton about 700 feet west of a trestle. Bolt set horizontally at centre of face which is parallel and nearest to track, 4 inches below top. No. 78-H. Elevation 2,746.679.

See Nanton and Yarrow.

Carstairs; C.P. Ry. Bank of Montreal in east concrete foundation wall, 1 foot from northeast corner and 10 inches below woodwork. Bolt set horizontally. No. H-16. Elevation 3,477.714.

Plate girder bridge over Carstairs creek 2½ miles south of station and at mileage 36 8 from Twelfth Street east, Calgary, tablet in bridge seat of south, concrete abutment 5 inches from east edge and 7 inches from north edge. No. H-18. Elevation 3,396.618.

See Crossfield and Didsbury.

Carvel; C.N Ry. Water tank. ½ mile west of station, in north face of concrete foundation wall, 3 feet 6 inches to the right of the spout and 5 inches below woodwork, bolt set horizontally. No. 67-H. Elevation 2,454.240.

See Stonyplain and Duffield.

Castan; N.A. Ry. Foundation of demolished water tank 1 mile west of station, in face of concrete foundation which is parallel and nearest to track, 3 feet from easterly edge of the face and 5 inches below woodwork, bolt set horizontally. No. V-28. Elevation 2,003.722.

Concrete bench-mark pier, 1½ miles east of station and 10 feet west of eleventh pole east of mile post 88 from Carbondale at the east end of a small cut, 1,055 feet easterly from road allowance along east boundary of sec. 22-65-17 and 46 feet north of track, bolt set vertically. No. V-24. Elevation 2,031.391.

See Beadiss and Meral.

Cassida; C.P. Ry. Concrete bench-mark pier 2 miles northwest of station and at mileage 75.25 from Medicine Hat, 100 feet westerly from a north-south fence and 5 feet south of northerly limit of right of way, bolt set vertically. No. 313-D. Elevation 2,515.070.

See Southesk and Brooks.

Castle Mountain; See Mount Eisenhower.

Castor; C.P. Ry. Bank of Montreal at south corner of Grand Avenue and Beaver Street in sandstone block to midline of northwest of Beaver Street wall, 18 inches from westerly corner and 17 inches above concrete sidewalk, bolt set horizontally. No. Z-22. Elevation 2,686.231.

Concrete bench-mark pier, 3½ miles southeast of station and 50 feet west of second pole east of mile post 18 from Coronation 300 feet westerly from road allowance along east boundary of sec. 18-37-13 and 3 feet south of northerly limit of right of way, bolt set vertically. No. Z-23. Elevation 2,714.528.

See Fleet and Veldt.

Cavendish; Concrete bench-mark pier, 3½ miles northeast of station and at mileage 20.2 from Empress, 95 feet westerly from road allowance along north boundary of sec. 31-21-3 and 7 feet north of southerly limit of right of way, bolt set vertically. No. 260-D. Elevation 2,175.696.

Concrete bench-mark pier 3½ miles west of station and at mileage 26.6 from Empress 480 feet easterly from road allowance along east boundary of sec. 19-21-4 and 4 feet north of southerly limit of right of way, bolt set vertically. No. 258-D. Elevation 2,258.438.

See Buffalo and Dundee.

Cayley; Iron pipe with brass cap, 2½ miles north of station, 2 feet east of westerly limit of C P Ry. right of way, 50 feet south of eighth pole south of mile post 45 from Twelfth Street east and 720 feet north of road allowance along north boundary of sec 36-17-29. No CC-3-A. Elevation 3,513.923.

Residence of H. A. Hailett, a shingle-sheathed bungalow on northeast ½ section 13-17-29, at west side of Calgary-Macleod highway, ½ mile south of C P Ry. station. North side was in concrete foundation 21 feet from rear corner 20 inches to cow woodwork and directly beneath centre of high wind. w. Bolt set horizontally No. CC-4 Elevation 3,500.630

See High River and Nanton

Cervel; C N Ry. Concrete bench-mark pier, 1½ miles east of station and 6 feet west of tenth pole west of mile post 81 from Kunderlev 330 feet west of a cut, 2,280 feet westerly from road allowance along east boundary of sec 22-28-6 and 2 feet south of northerly limit of right of way, tablet in top of pier No. S-90. Elevation 2,542.843

Concrete bench mark pier 2 miles west of station and 386 feet west of mile post 85 from Kunderlev 620 feet easterly from road allowance along east boundary of sec 25-28-7 and 3 feet south of northerly limit of right of way bolt set vertically No. S-91. Elevation 2,512.237

See Chinook and Lethbridge

Champlain; High school. 1913. Front or northwest concrete foundation wall, 5 feet 6 inches from westerly corner and 2 feet below brickwork. Bolt set horizontally No. 71-D. Elevation 3,148.372.

See Kirkcaldy and Carmangay

Chancellor; C P Ry. Alberta-Pacific Grain Company's elevator, in east concrete foundation wall, 15 feet from southeast corner and 3 inches below metal sheathing, bolt set horizontally No. 299-D. Elevation 2,925.069

This bench mark was not found during inspection of 1947

See Standard and Humar

Chard; N A Ry. Concrete bench-mark pier, 1 mile south of south switch and 56 feet north of mile post 212 from Carbondale, 88 feet north of south mile sign and 47 feet west of track, bolt set vertically No. V-58. Elevation, 1,666.454.

Concrete bench-mark pier, 2½ miles north of north switch and 20 feet north of mile post 216 from Carbondale at seventh pole north of a bridge and 45 feet east of track bolt set vertically No. V-59. Elevation 1,717.486.

See Leumer and Pingie.

Chauvin; C N Ry. Station, in east concrete foundation wall, 2 feet from south-east corner and 10 inches below stucco bolt set horizontally No. 30-H. Elevation 2,060.011

See Buteau and Ribetot.

Cheschem; N A Ry. Concrete bench-mark pier, 1 mile north of switch and 21 feet northeast of mile post 248 from Carbondale, 82 feet east of track, bolt set vertically No. V-68. Elevation 1,569.112.

See Warper and Knoos.

Chestermere Lake; Concrete bench-mark pier, 1,400 feet northwest of station and 6 feet east of sixteenth pole west of mile post 124 from Hanna, 2,800 feet westerly from road allowance along east boundary of sec 3-24-28 and 3 feet south of northerly limit of right of way, bolt set vertically No. S-168. Elevation 3,370.230.

Steel truss bridge over C P Ry irrigation canal, $\frac{1}{2}$ mile west of station and at mileage 124.9 from Hanna, in top of north concrete retaining wall at east end of bridge, 16 inches from east end of wall, bolt set vertically No S-189 Elevation 3,285.457

See Janet and Norfolk.

Chim: C P Ry Public school in concrete foundation of west side wall, 9 feet from southwest corner and 15 inches below stucco, bolt set horizontally No 101-C Elevation 2,780.281

Plate girder bridge 1 mile west of station and at mileage 91.1 from Dunmore in centre of south face of west concrete abutment, 1 foot below top; bolt set horizontally No 192-C Elevation 2,773.507

See Jannesson and Coaldale.

Chisholm: Acadia Hotel in southwest concrete foundation wall, 9 feet northwest of side entrance and 8 inches below woodwork, bolt set horizontally No S-93 Elevation 2,650.288

C N Ry United Church in concrete foundation of southeast side wall, 17 inches from corner of main portion of building and 10 inches below woodwork, bolt set horizontally No S-94 Elevation 2,643.969

Concrete bench-mark pier, $\frac{1}{2}$ miles northwest of station and 26 feet east of twelfth pole west of mile post 91 from Kindersley 610 feet west of a whistle post for eastbound trains, 1,870 feet westerly from road allowance along east boundary of sec 7-29-7 and 2 feet south of northerly limit of right of way tablet in top of pier No S-95 Elevation 2,582.842

See Dobson and Cereal.

Chippewa: C N Ry Iron pipe filled with concrete, $3\frac{1}{2}$ miles southeast of station and midway between sixth and seventh poles east of mile post 82 from Vermilion, 660 feet east of a private crossing and 2 feet north of southerly limit of right of way, bolt set vertically No L-14 Elevation 2,197.642

Top of pipe has been hammered and bolt removed, elevation only approximate.

Iron pipe filled with concrete $\frac{1}{2}$ mile northwest of station and 88 feet west of fourth pole east of mile post 86 from Vermilion, 2,520 feet west of west switch of passing-track and 3 feet south of northerly limit of right of way bolt set vertically No L-13 Elevation 2,188.835.

See Lamont and Hilliard.

Chisholm: Concrete bench-mark pier, $1\frac{1}{2}$ miles south of station 41 feet east of N A Ry track, 40 feet south of second pole north of mile post 108 from junction with C N Ry and 40 feet south of Government telephone pole No 2-887 Bolt set vertically No U-29 Elevation 1,937.571

Concrete bench-mark pier $2\frac{1}{2}$ miles north of station 37 feet east of N A Ry track 15 feet south of sixth pole north of mile post 112 from junction with C N Ry and 40 feet north of Government telephone pole No. 2-1027 Bolt set vertically No U-30 Elevation 1,968.874

See Tieland and Hondo.

Chairman: Concrete bench-mark pier, on high ground, $3\frac{1}{2}$ miles north of station, 4 feet east of westerly limit of N A Ry right of way and between sixth and seventh poles north of mile post 49 from Ryecroft, 185 feet south of road allowance along north boundary of sec 2-73-6 Tablet in top of pier No 290-H Elevation 2,816.288

Iron pipe with brass cap, $\frac{1}{2}$ mile south of station, 4 feet west of easterly limit of N A Ry right of way and 500 feet south of road allowance along north boundary of sec 24-72-6 No 391-H Elevation 2,231.808.

Iron pipe with brass cap, $2\frac{1}{2}$ miles south of station and about 500 feet west of N.A.Ry. on road allowance along north boundary of sec. 12-72-6, 2 feet north of south limit and 168 feet east of northeast corner of sec. 11. No. T-68. Elevation 2,245-376.

See Sexsmith and Grande Prairie

Clareholm; Iron pipe with brass cap, $4\frac{1}{2}$ miles north of station, 380 feet north of Pulteney north switch, 2 feet east of westerly limit of C.P.Ry. right of way and 20 feet south of eighteenth pole south of mile post 76 from Twelfth Street east. No. CC 12. Elevation 3,426-529.

Public and high school. South side wall of main section, in concrete foundation, 1 foot from rear corner and 2 feet 6 inches below corner stone. Bolt set horizontally. No. CC 13. Elevation 3,393-522.

See Stavely and Woodhouse.

Claymore; C.N.Ry. Iron pipe filled with concrete, $\frac{1}{2}$ mile west of station and 70 feet west of eighth pole east of mile post 8 from Vermilion, 795 feet westerly from road allowance. Along east boundary of sec. 25-50-8 and 4 feet south of northerly limit of right of way. bolt set vertically. No. L-33. Elevation 2,971-927

See Mannville and Vermilion.

Clive; C.P.Ry. Concrete bench-mark pier, 1 mile northwest of station and 45 feet east of fourteenth pole west of mile post 94 from Coronation, 2 feet north of southerly limit of right of way, tablet in top of pier. No. Z-3. Elevation 2,838-505.

See Tees and Lacombe

Clover Bar; C.N.Ry. Bridge over North Saskatchewan River, 1 mile west of station, in west face of east concrete abutment, 4 feet 6 inches south of southerly girder and 3 feet 10 inches above bridge seat, bolt set horizontally. No. 67-H. Elevation 2,130-091

See Breinier and North Edmonton

Calgary; C.P.Ry. Concrete box culvert, 4 miles east of station and at mileage 94 1 from Dunmore, in west end of south face, 2 feet 3 inches below top, bolt set horizontally. No. 198-C. Elevation 2,611-889.

See Chin and Lethbridge

Calgary; C.P.Ry. See Kipp, B.M. No. 81-D

Cochrane; C.P.Ry. plate girder bridge over Bighill creek, $\frac{1}{2}$ mile west of station. Rear or east face of bastion wall on east concrete abutment, 16 inches from south end of wall and 8 inches below top. Bolt set horizontally. No. 223-C. Elevation 2,747-753.

C.P.Ry. steel truss bridge over Bow River, 3 miles west of station and at mileage 26 7 from Calgary. North face of concrete coping of north stone retaining wall at east end of bridge 20 inches from west end of wall. Bolt set horizontally. No. 224-C. Elevation 3,727-314.

See Glenbow and Radnor

Coldessa; Iron pipe with brass cap, on high ground, about 2,000 feet west of station, 4 feet south of northerly limit of N.A.Ry. right of way and between first and second poles west of mile post 323 from junction with C.N.Ry. 1,125 feet east of road allowance along east boundary of sec. 21-78-1. No. 367-H. Elevation 1,881-985.

See Eaglesham and Belby.

Calgary: Concrete box culvert under C P Ry, 1½ miles southeast of station and at mileage 90 1 from Lethbridge. Northwest end of southwest face, 9 inches from top. Bolt set horizontally. No 104-D Elevation 4,275 672.

Concrete box culvert under C P Ry, ½ mile west of station and at mileage 92 1 from Lethbridge. East end of north face 2 feet below top. Bolt set horizontally. No 105-D Elevation 4,310 888.

Concrete box culvert under C P Ry 2½ miles west of station and at mile post 94 from Lethbridge 60 feet east of a road crossing. Centre of north face 2 feet below top. Bolt set horizontally. No 106-D Elevation 4,367 279.

See Blaumore and Seignel.

Calgary: C P Ry Concrete bench mark per 2 miles east of station and at mileage 41 4 from Kerrobert 30 feet east of sixth pole west of a road crossing and 3 feet south of northerly limit of right of way, bolt set vertically. No 2-48. Elevation 2,344 947.

Concrete bench-mark per 2 miles northwest of station and at mileage 48 4 from Kerrobert 125 feet easterly from road allowance along east boundary of sec 34-33-1 and 3 feet north of southerly limit of right of way, bolt set vertically. No 2-45 Elevation 2,339 462.

Concrete bench mark per ½ mile east of Court, Sask., 21 feet east of eleventh pole east of mile post 37 from Kerrobert or sixteenth pole east of road allowance along east boundary of sec 27-33-28, at the east end of a fill and 3 feet south of northerly limit of right of way, bolt set vertically. No 2-47 Elevation 2,294 938.

Concrete bench-mark per 2½ miles south of station, on road allowance along east boundary of sec 12-33-1, 3 feet east of west limit of road allowance and 20 feet south of northeast corner of sec 12, bolt set vertically. No 641-C Elevation 2,224 444.

Concrete bench-mark per ½ miles south of station, on road allowances along east boundary of sec 33-33-1, 3 feet east of west limit of road allowance and 20 feet south of northeast corner of sec 33 bolt set vertically. No 64-C Elevation 2,224 386.

Municipal Hall at Laverna, Sask., in concrete foundation of north side wall, 12 feet from northwest corner and 1 foot below woodwork, bolt set horizontally. No 637-C Elevation 2,255 458.

Concrete bench-mark per 2 miles north of Laverna, Sask., on road allowance along east boundary of sec 25-31-1 3 feet east of west limit of road allowance and 21 feet south of northeast corner of sec 25, bolt set vertically. No 638-C Elevation 2,296 964.

Concrete bench-mark per 3 miles north of Laverna, Sask., on road allowance along east boundary of sec 14-33-29 3 feet east of west limit of road allowance and 20 feet north of northeast corner of sec 14, bolt set vertically. No 639-C Elevation 2,285 535.

Concrete bench mark per 2 miles south of Laverna, Sask., on road allowance along east boundary of sec 1-31-1 3 feet east of west limit of road allowance and 20 feet south of northeast corner of sec 1, bolt set vertically. No 633-C Elevation 2,339 537.

Concrete bench mark per 2 miles south of Laverna, Sask., on road allowance along east boundary of sec 13-30-1 3 feet west of east limit of road allowance and 25 feet south of northeast corner of sec 13, bolt set vertically. No 634-C Elevation 2,327 629.

*These bench marks were not found during inspection of 1947.

See Altario and Bibbald.

Cowden; N A Ry Concrete bench-mark pier 3½ miles north of north switch and 80 feet south of thirteenth pole north of mile post 196 from Carbondale, 1,120 feet northerly from road allowance along north boundary of sec 12-77-8 and 50 feet east of track, bolt set vertically No V-34. Elevation 1,831.100.

Concrete bench-mark pier, 1 mile west of west switch and 60 feet east of second pole east of mile post 192 from Carbondale 2,230 feet easterly from road allowance along east boundary of sec 20-78-8 and 48 feet north of track, bolt set vertically No V-33. Elevation 1,832.499

See Devenish and Leamer.

Cowfoot; CP Ry Pioneer Grain Company's elevator in south concrete foundation wall, 8 inches from southeast corner and 8 inches below woodwork, bolt set horizontally No Z-35. Elevation 2,370.940

Concrete bench-mark pier, 3½ miles southwest of station and at mileage 87.9 from Kerrobert, 200 feet east of a road crossing and 3 feet south of northerly limit of right of way, bolt set vertically No Z-35. Elevation 2,430.573.

See Monitor and Loyalist.

Cooking Lake; CN Ry Foundation of demolished water tank, in northwest face, 12 feet 6 inches to the right of water spout, 4 inches below top of foundation, 5 inches south from angular northwest corner, bolt set horizontally No 53-H. Elevation 2,432.658.

See Deville and Uncas.

Coronado; CN Ry See Federal, B M No V-3.

Coronation; CP Ry Fundamental bench mark in public school grounds, 24 feet north of north line of Norfolk Avenue, 170 feet west of west line of George Street and 36 feet south of front wall of school, tablet in top of pier No 822 C. Elevation 2,896.496.

Municipal steel water tank, at north side of Windsor Avenue, between Royal and King Streets, tablet in top of southeasterly concrete footing, 5 inches from southeast edge and midway between northeast and southwest edges. No. 823-C. Elevation 2,811.793.

Bank of Toronto in west concrete foundation wall, 16 inches from southwest corner and 5 feet below brickwork, bolt set horizontally No. Z-38. Elevation 2,811.939.

Concrete bench-mark pier, 1½ miles west of station and 70 feet west of ninth pole east of mile post 3 or fourteenth pole west of road allowance along east boundary of sec 15-38-11. 4 feet north of northerly limit of right of way, bolt set vertically No Z-27. Elevation 2,607.618.

See Throne and Federal.

Cowritten; CP Ry Alberta Pacific Grain Company's elevator, tablet in east concrete foundation wall, 24 feet 8 inches from southeast corner and 6 inches below woodwork. No 338-D-2. Elevation 2,468.022

Concrete bench-mark pier, 2½ miles west of station and at mileage 112.4 from Empress, 45 feet westerly from road allowance along east boundary of sec 7-21-17 and 5 feet south of northerly limit of right of way; bolt set vertically No 335-D. Elevation 2,535.773.

See Rosemary and Bassano.

Cowritten; CP Ry International Boundary monument No 334, 70 feet east of track, tablet in top of concrete base of monument. Elevation 3,466.666.

See Milk River

United States Coast and Geodetic Survey Bench Mark No. H-12.

Cowley; Concrete box cattle pass under C P Ry, 2½ miles southeast of station and at mileage 65.3 from Lethbridge. Northwest face of coping of southwest headwall, 8 inches below top. Bolt set horizontally. No. 95-D Elevation 3,732.789

C P Ry steel trestle bridge over Castle River, 2½ miles southeast of station and at mileage 68.7 from Lethbridge. Southeast face of north concrete retaining wall at northwest end of bridge 2 feet 8 inches above bridge seat. Bolt set horizontally. No. 96-D Elevation 3,734.140.

See Piney and Lundbreck.

Crookback; C P Ry See New Dayton, B M. No. 205-C

Craigellum; C P Ry Concrete bench-mark pier ½ mile southeast of station and at mileage 67.2 from Bassano. 65 feet east of second pole east of road allowance along east boundary of sec. 12-27-28 and 3 feet south of northerly limit of right of way, tablet in top of pier. No. 291-D-2 Elevation 3,039.049.

See Irricana and Gayford.

Craigmyre; C N Ry Concrete bench-mark pier 1 mile east of station and 7 feet east of sixteenth pole west of mile post 13 from Hanna, 190 feet east of a private crossing, 1,645 feet easterly from road allowance along east boundary of sec. 26-31-16 and 2 feet west of northerly limit of right of way, tablet in top of pier. No. 8-116 Elevation 2,831.606.

Concrete bench-mark pier 3 miles west of station and 10 feet west of thirteenth pole west of mile post 17 from Hanna, 627 feet east of a galvanized iron pipe culvert, 2,800 feet easterly from road allowance along east boundary of sec. 15-31-17 and 2 feet south of northerly limit of right of way, tablet in top of pier. No. 8-118 Elevation 2,876.979

See Deha and Wattie.

Crooked Creek; Iron pipe with brass cap near rural school house, 5½ miles southeast of Crooked Creek post office, 93 feet northwest of northwest corner of school house 46 feet southwest of centre line of road. No. 638-H Elevation 2,264.542.

Farmhouse owned by Mrs. Mary Kadey, NE. ½ sec. 9-7-26, 4½ miles southeast of Crooked Creek post office. Tablet in centre of west wall of concrete foundation, 9 inches below woodwork. No. 636-H Elevation 2,302.711

Iron pipe with brass cap 2½ miles southeast of Crooked Creek post office, 347 feet west of intersection of road allowance along east boundary of sec. 18-7-25, midway between telephone poles Nos. 4-1623 and 4-1634, 72 feet north of centre line of road. No. 827-H Elevation 2,256.729.

Farm, now owned by F. J. Hensert on northwest quarter see 24-7126, ½ mile east of Crooked Creek post office. Tablet in centre of west concrete foundation of building 15 inches below woodwork. No. 638-H Elevation 2,187.706.

Iron pipe with brass cap 2½ miles northwest of Crooked Creek store and post office 61 feet south of south end of wooden pipe culvert under grade intersecting highway 50 feet west of centre line of road. No. 639-H Elevation 2,181.887

See Sturgeon Heights and Debolt.

Crossfield; Concrete arch culvert under C P Ry, 3 miles north of station and at mile post 32 from Twelfth Street east, 2,400 feet south of road allowance along north boundary of sec. 11-29-1. Tablet in top of coping of east headwall, 1 foot from north end. No. H-14 Elevation 3,507.798

See Aurdie and Carrburn.

Colby: Iron pipe with brass cap on high ground, 2 miles southeast of south switch, 4 feet south of northerly limit of N A Ry right of way and at sixth pole east of mile post 288 from junction with C N Ry 43 feet west of a private crossing No 352-H Elevation 1,829 126

Iron pipe with brass cap on high ground 340 feet north of north switch 50 feet west of N A Ry track and between eleventh and twelfth poles north of mile post 288 from junction with C N Ry No 353-H Elevation 1,831 191

Iron pipe with brass cap on high ground 2½ miles northwest of north switch (by railway line around hairpin curve), 36 feet east of westerly limit of N A Ry right of way and between fifth and sixth poles north (i.e. in the direction of station) from mile post 291 from junction with C N Ry, 70 feet south of a private crossing No 354-H Elevation 1,879 471

See Chirouxville and Watino

Dumfries: C P Ry Large concrete building, erected in 1928, near station and about 400 feet northwest of railway in southwest wall, 1 foot from southerly corner and 3 feet 4 inches below window sills bolt set horizontally No 171-C Elevation 2,388 668

Concrete box culvert 1½ miles northeast of station and at mile post 8 from Dunmore on northeast face of west wingwall at south end of culvert, bolt set horizontally No 170-C Elevation 2,363 127

See Dunmore and Sevenpersons

Debolt: Iron pipe with brass cap 3 miles southeast of Debolt general store, at intersection of old road and new highway 52 feet east of east end of culvert under grade of old road and 32 feet east of telephone pole No 4-1882, 80 feet south of centre line of road No 640-H Elevation 2,196 928

Iron pipe with brass cap 4 m. east of Debolt general store 61 feet east of east end of pipe culvert under grade of side road leading to field on north side of highway midway between telephone poles Nos 4-1970 and 4-1971, 20 feet north of centre line of highway No 641-H Elevation 2,115 547

Iron pipe with brass cap 2 miles west of Debolt general store midway between telephone poles Nos 4-2056 and 4-2057 being the 8th and 9th poles respectively east of junction of side road leading north from the highway on fence line along north limit of highway No 642-H Elevation 2,072 920

See Crooked Creek and Goodwin

Douline: Rock cut on Yellowhead highway opposite a point on C N Ry, 1½ miles east of station (immediate w. west of point where road joins old Grand Trunk Pacific Ry grade and 480 feet west of west end of abandoned railway trestle over Miette River). North side of cut 250 feet from east end and at road level Bolt set horizontally No 108-H Elevation 3,625 934

Rock cut on Yellowhead highway opposite a point on C N Ry 2½ miles west of station and 1½ miles east of Alberta-British Columbia boundary, immediately west of a larger and deeper cut and separated from it by a deep fill about 100 yards in length. North side of cut 68 feet from west end and at road level Bolt set horizontally No 109-H Elevation 3,663 363

See Ceekie and Yellowhead

Douline: Concrete bench-mark post ½ mile southeast of southeast switch, 42 feet southwest of N A Ry track 70 feet northwest of fifteenth pole northwest of mile post 136 from junction with C N Ry and opposite Government telephone pole No 2-1856 Bolt set vertically No U-39 Elevation 1,971 288

See South and Sauveux

Dalhousie; C N Ry Plate girder bridge over irrigation canal, 2 miles north of station and at mileage 110 1 from Mirror, in east end of south face of north concrete abutment 20 inches above bridge seat, bolt set horizontally No. 43-F Elevation 3,208.972.

See Kathryn and Hubalta.

Delta; C N Ry Queen's note, in southeast concrete foundation wall of alcove, 40 feet 9 inches from front or Main Street wall, 7 inches from south corner of alcove and 9 inches below woodwork bolt set horizontally No. S-120 Elevation 2,960.780

Concrete bench-mark pier 1 mile northeast of station and between first and second poles east of mile post 21 from Hanna 56 feet east of east mile sign, 81 feet east of a private crossing and 3 feet south of northerly limit of right of way tablet in top of pier No. S-119 Elevation 2,968.473.

This bench mark was not found during inspection of 1947.

See Michichi and Craignayle.

Dominion Iron pipe with brass cap 4 miles southeast of station 3 feet northwest of northerly limit of N A Ry right of way 24 feet southeast of eleventh pole northwest of mile post 102 from Ryecroft and 275 feet southeast of road allowance along east boundary of sec 13-74-13 No 409-H Elevation 2,822.158.

Iron pipe with brass cap 1 mile southeast of station 4 feet northwest of southeast limit of N A Ry right of way 48 feet northwest of sixth pole northwest of mile post 108 from Ryecroft 142 feet southeast of road allowance along east boundary of sec 20-74-13 and 220 feet northwest of trestle over an arm of Red Lake N 410-H Elevation 2,579.356

Iron pipe with brass cap 1½ miles northwest of station 3 feet southwest of northerly limit of N A Ry right of way and at seventh pole southeast of mile post 108 from Ryecroft 250 feet northwest of road allowance along east boundary of sec 33-74-13 N 411-H Elevation 2,559.677

Iron pipe with brass cap 4 miles northwest of station 3 feet northeast of southwest limit of N A Ry right of way 26 feet northwest of seventh pole northwest of mile post 110 from Ryecroft and about 660 feet northwest of trestle over Albright creek No 412-H Elevation 2,507.180

See Lymburn.

Dundurn; C P Ry Concrete bench-mark pier 1½ miles northeast of station and at mileage 68 8 from Empress, 40 feet westerly from road allowance along east boundary of sec 12-20-11 and 6 feet south of northerly limit of right of way bolt set vertically No. 348-D Elevation 2,534.783

Concrete bench-mark pier 2½ miles west of station and at mileage 73 8 from Empress at the east end of a long fill and to the west of a long snow fence 3 feet south of northerly limit of right of way, bolt set vertically No. 348-D Elevation 2,498.837

See Patricia and Iddeleigh

Dundurn; N A Ry Concrete bench-mark pier 1 mile north of north switch and 8 feet north of eleventh pole north of mile post 184 from Carbondale, 708 feet south of north mile sign, 2,210 feet northerly from road allowance along north boundary of sec 33-75-8 and 47 feet west of track bolt set vertically No. V-51 Elevation 2,141.774

Concrete bench-mark pier 4½ miles north of north switch and 50 feet north of first pole north of mile post 188 from Carbondale 68 feet north of a bridge 3,260 feet northerly from road allowance along east boundary of sec 21-78-8 and 46 feet west of track, bolt set vertically No. V-52 Elevation 1,963.475.

Concrete bench-mark pier, $3\frac{1}{2}$ miles southwest of south switch and 28 feet west of third pole east of mile post 180 from Carbonear, 626 feet westerly from road allowance along east boundary of sec 13-75-9 and 41 feet north of track, bolt set vertically No V-50. Elevation 2,128-271

See Margie and Coxton.

Derville; C N Ry Concrete bench-mark pier, $\frac{1}{2}$ mile southeast of station and 63 feet east of sixth pole west of mile post 97 from Wainwright or thirteenth pole east of road allowance along east boundary of sec 32-51-20, 3 feet south of northerly limit of right of way, tablet in top of pier No. 52-H-2 Elevation 2,441-035.

See Tofield and Cooking Lake.

De Winton; Concrete box cattle pass under C.P Ry, 2 miles northwest of station and at mileage 16 1 from Twelfth Street east. West face of north headwall, 5 inches below top. Bolt set horizontally No 56-D. Elevation 3,540-307

Concrete box cattle pass under C P Ry, 1 mile northwest of station and at mileage 16 2 from Twelfth Street east, 1,550 feet south of road allowance along north boundary of sec 35-21-1 North face of east headwall, 1 foot below top Bolt set horizontally No 57-D Elevation 3,600-384.

See Midaspore and Sandstone

Didsbury; Concrete box culvert under C P Ry, $2\frac{1}{2}$ miles south of station and at mileage 44 2 from Twelfth Street east. Tablet in top of coping of east headwall, 11 inches from south end No H 17 Elevation 3,434-031

Red and White grocery a concrete block building at northwest corner of Railway and Hespeler Streets. Front or east wall, 1 foot from northeast corner and 6 inches below surface of door sill. Bolt set horizontally No. H-18. Elevation 3,412-737

See Carstairs and Ochs.

Dinobdale; Iron pipe with brass cap, $1\frac{1}{2}$ miles east of station, 3 feet south of northerly limit of N A Ry right of way, between fourth and fifth poles east of mile post 57 from Ryecroft, between Government telephone poles Nos 5-232 and 5-233 and 350 feet west of road allowance along east boundary of sec 14-71-7 No. 396-H Elevation 2,249-737

Iron pipe with brass cap, $1\frac{1}{2}$ miles west of station 3 feet north of southerly limit of N.A Ry right of way and between second and third poles east of mile post 60 from Ryecroft, 200 feet east of road allowance along east boundary of sec 17-71-7 No. 397-H Elevation 2,289-916

See Grande Prairie and Wembley

Dinmont; C.N Ry Water tank, $\frac{1}{2}$ mile south of station, in southerly concrete footing of the two which are parallel and nearest to track, bolt set horizontally in west face of footing, 4 inches below woodwork. No. 73-F Elevation 2,445-449.

Bolt has been removed and elevation is recoverable, only approximately

See Kingman and Camrose

Dixonville; Iron pipe with brass cap at junction with old road, $1\frac{1}{2}$ miles south of Dixonville, $1\frac{1}{2}$ miles north of farm owned by Chas. Colwell, 96 feet south of point of gore between the two roads, 47 feet west of centre line of main road and 35 feet east of that of old road. No. 723-H Elevation 2,150-937.

Iron pipe with brass cap at farm owned by H Cannon 9 miles south of Duxoville 42 feet northwest of intersection of north boundary section 26-86-23 and 21 feet northwest of gateway near northeasterly fence line of road. No. 728-H Elevation 2,080 840.

Iron pipe with brass cap at farm owned by Clifford Vance 6½ miles south of village of Duxoville in fence angle at south side of driveway entrance, 144 feet south of quarter corner post on east boundary section 24-86-24 No. 727-H Elevation 2,084 807.

Iron pipe with brass cap, 4½ miles south of Duxoville 100 feet south of east quarter corner section 26-84-24, 1 foot east of west fence line of road. No. 728-H Elevation 2,082 743.

Iron pipe with brass cap at farm of Harry Hryniuk, 2½ miles south of Duxoville on north side of 22nd Correction Line about 200 feet north of southeast corner section 1-87-24 114 feet east of a fence corner No. 729-H Elevation 2,058 361.

Public school at Duxoville. Tablet in east concrete foundation wall, 30 feet south of northeast corner of building and 8 inches below facing. No. 730-H Elevation 2,112 485.

Iron pipe with brass cap at farm of P McCov 2 miles north of Duxoville 13 feet south of driveway entrance 66 feet east of northeast corner section 24-87-24 1½ feet west of fence line N 731-H Elevation 2,132 337.

Iron pipe with brass cap at road at village intersection 4 miles north of Duxoville 105 feet south and 66 feet east of northeast corner section 36-87-24 No. 732-H Elevation 2,160 368.

Iron pipe with brass cap, 6 miles north of Duxoville and at first curve in the road west of village at road allowance intersection, 37 feet south of northeast corner section 12-88-24 No. 733-H Elevation 2,137 522.

See Warrensville and Lonestar

Dobson, C N Ry. Concrete bench-mark pier 2 miles southeast of east switch and 32 feet east of eighth pole west of mile post 93 from Kindersley 110 feet west of a switch pier for west bound trains 910 feet easterly from road allowance along east boundary of sec 21-29-8 and 2 feet south of northerly limit of right of way tablet on top of pier N 8-96 Elevation 2,567 509.

Concrete bench-mark pier 2 miles northwest of west switch and 20 feet east of ninth pole west of mile post 99 from Kindersley 1,050 feet east of the centre of a switch 2,800 feet westerly from road allowance along east boundary of sec 21-29-9 and 2 feet south of northerly limit of right of way tablet on top of pier No. 8-97 Elevation 2,533 610.

See Youngstown and Chinook

Donnelly: Iron pipe with brass cap on high ground, 4 miles east of station, 3 feet north of southerly limit of N A Ry right of way 40 feet west of eighth pole west of mile post 268 from junction with C N Ry and 1,285 feet west of road allowance along east boundary of sec 34-77-20 No. 344-H Elevation 2,043 754.

Iron pipe with brass cap on high ground 1½ miles east of station, 4 feet south of a southerly limit of N A Ry right of way and at tenth pole east of mile post 269 from junction with C N Ry 100 feet east of bridge over Peavine creek No. 345-H Elevation 1,985 529.

Iron pipe with brass cap 1 mile west of station, 3 feet north of southerly limit of N A Ry right of way 30 feet west of tenth pole west of mile post 271 from junction with C N Ry and 750 feet west of road allowance along east boundary of sec 278-21 No. 346-H Elevation 1,928 306.

See McLennan and Falher

Durocher; C N Ry Red and White store, 500 feet northwest of station, in south concrete foundation wall 11 inches from southeast corner and 7 inches below woodwork, bolt set horizontally No. 68-F Elevation 2,537-906.

Concrete bench-mark pier, 44 miles south of station and 6 feet north of fourth pole south of mile post 80 from Edmonton or sixth pole south of road allowance along north boundary of sec. 22-42-21, 35 feet north of a private crossing and 4 feet east of westerly limit of right of way, tablet in top of pier No. 68-F-2. Elevation 2,616-706.

See Ferintosh and Bashaw

Draper; N A Ry Concrete bench-mark pier, $\frac{1}{2}$ mile southeast of station and 10 feet west of fourteenth pole east of mile post 282 from Carbondale, 100 feet west of east end of a curve and 50 feet south of track, bolt set vertically No. V-77 Elevation 839 421

Concrete bench-mark pier 3 miles southeast of station and 50 feet west of second pole east of mile post 279 from Carbondale or of eighteenth pole east of a bridge over a stream 47 feet north of track, bolt set vertically No. V-78. Elevation 1,080-223.

Concrete bench-mark pier, $\frac{1}{2}$ mile west of station and 55 feet east of sixteenth pole west of mile post 282 from Carbondale, 55 feet west of a small wooden box culvert and 55 feet south of track, about 6 feet above track level, on the west slope of a small ravine, bolt set vertically No. V-79. Elevation 819 471

See Lynton

Dresser; Iron pipe with brass cap, $1\frac{1}{2}$ miles east of station, 3 feet south of northerly limit of N A Ry right of way and at fifth pole west of mile post 276 from junction with C N Ry, 170 feet west of a trestle and 535 feet east of road allowance along east boundary of sec. 12-78-22. No. 348-H Elevation 1,893 851

See Falher and Garouville

Driftpale; Iron pipe with brass cap, 1 mile east of station, 3 feet south of northerly limit of N A Ry right of way, between ninth and tenth poles west of mile post 263 from junction with C N Ry, between Government telephone poles Nos. 3-1048 and 3-1049 and 350 feet east of Boggy creek trestle. No. 321 H. Elevation 1,902 652.

N A Ry wooden truss bridge over Driftpale River, $1\frac{1}{2}$ miles west of station. Tablet in bridge seat of east concrete abutment, 1 foot from north (downstream) edge and 2 feet from west edge. No. 322-H Elevation 1,942 931

See Faust and Jossard

Drumheller; C N Ry Highway bridge over Red Deer River, at foot of Second Street west, in top of southeast concrete abutment, 14 inches from northeast or downstream face and 16 inches from northwest face, bolt set vertically No. S-133 Elevation 2,247-118

Concrete bench-mark pier, 1 mile west of station and 15 feet east of seventh pole east of mile post 51 from Hanna, 18 feet east of a point in line with east wall of Ukrainian Labour Temple, 213 feet east of a road crossing and 2 feet north of southerly limit of right of way, tablet in top of pier. No. S-131 Elevation 2,256-961

This bench mark was not discovered during inspection of 1947

Steel truss bridge over Red Deer River 24 miles west of station and at mileage 50.1 from Hanna, in concrete ballast wall on top of north

abutment, directly in line with inner side of westerly or upstream truss and 10 inches from south edge of wall, bolt set vertically No 8-130. Elevation 2,482-281.

Concrete bench-mark pier $\frac{3}{4}$ miles northwest of station and 43 feet north of ninth pole north of mile post 47 from Hanna, 236 feet south of a whistle post for trains bound toward Calgary and 8 feet east of westerly limit of right of way, tab et in top of pier No 8-129. Elevation 2,430-683.

See Rosedale and Munson

Duchess; C P Ry Public school, in northeast or rear concrete foundation wall, 12 feet 4 inches from northerly corner and 5 inches below woodwork, bolt set horizontally No 340-D Elevation 2,482-402.

Concrete bench-mark pier $\frac{3}{4}$ miles southeast of station and at mileage 90 5 from Empress, 1,050 feet westerly from road allowance along east boundary of sec 27-20-14 which passes through a subway under the railway, 6 feet south of northerly limit of right of way, bolt set vertically No 341-D Elevation 2,431-170.

Concrete bench-mark pier $\frac{3}{4}$ miles west of station and at mileage 95 6 from Empress almost in line with north fence of road allowance between townships 20 and 21 and 8 feet south of northerly limit of right of way, bolt set vertically No 339-D Elevation 2,483-209.

These bench marks were not found during inspection of 1947

See Rosemary and Millicent.

Duct; N A Ry See Draper, B M No. V-76.

Duffield; C N Ry Concrete bench-mark pier 1 mile west of station and 24 feet east of ninth pole west of mile post 39 from Edmonton, 1,830 feet east of a road crossing, 18 feet west of a private crossing and 5 feet south of northerly limit of right of way, bolt set horizontally in north side of pier No 68-H Elevation 2,378-913

See Carvel and Falis.

Duhamel; C N Ry Concrete bench-mark pier, 2 miles north of station and at fifth pole north of mile post 58 from Edmonton, or eleventh pole southerly from road allowance along east boundary of sec 3-46-21, 4 feet west of easterly limit of right of way, bolt set horizontally in north side of pier No 69-F Elevation 2,380-178.

See Camrose and New Norway

Dunmore; C P Ry Demolished roundhouse, in west concrete foundation wall, 10 inches from southwest corner and 2 feet 8 inches below brickwork, bolt set horizontally No 165-C Elevation 2,413-282.

Concrete bench-mark pier, $\frac{5}{4}$ miles east of station, 28 feet west of mile post 135 from Swift Current and 7 feet north of southerly limit of right of way, bolt set horizontally in north side of pier No 164-C Elevation 2,418-696

Bridge over Bullhead creek, $\frac{3}{4}$ miles northwest of station and at mileage 142 5 from Swift Current, in west end of north or rear face of north concrete abutment, 8 inches below top, bolt set horizontally No 166-C Elevation 2,317-248.

See Pasley, Dauntless, and Medicine Hat.

Dunn; C N Ry Foundation of demolished section house, 600 feet east of east switch to northeast or front concrete foundation wall, 19 inches from northerly corner and 2 inches below top of foundation, bolt set horizontally No 32-H Elevation 2,109-003.

See Robstone and Heath

Dundalk; C N Ry See Baantree B M No 8-151

Duthill; Plate girder bridge on C P Ry, 1 mile northwest of northwest switch and at mileage 73 1 from Calgary. Southeast concrete abutment, northeast end of northwest lane 2 feet 7 inches above bridge seat. Bolt set horizontally No 237-C. Elevation 4,371 814.

See Canmore and Bankhead.

Englehardt; Iron pipe with brass cap, on high ground, 2½ miles east of station, 2 feet south of southerly limit of N A Ry right of way and at fifth pole east of mile post 313 from junction with C N Ry No 384-H Elevation 1,887 437

Iron pipe with brass cap, on high ground, 1 mile east of station, 4 feet north of southerly limit of N A Ry right of way and at twelfth pole west of mile post 313 from junction with C N Ry 520 feet east of road allowance along east boundary of sec 25-78-26 No 385-H Elevation 1,881 668

Concrete bench mark pier on high ground, 3 miles west of station, 3 feet north of southerly limit of N A Ry right of way and 35 feet east of ninth pole east of mile post 319 from junction with C N Ry. Tablet in top of pier. No 386-H Elevation 1,885 640.

See Tangent and Codée

Edmonton; C N Ry See Dunn, B M No 32-H

Edmonton; Concrete bench-mark pier 3 miles south of South Edmonton station 3 feet east of southerly limit of C P Ry right of way, 20 feet north of second pole north. Mile post 94 from Red Deer and 600 feet north of a private crossing. Bolt set vertically No H 48-A Elevation 2,212 532

Concrete pier 16 inches square and 6 inches in height a triangulation station of Geological Survey of Canada in grounds of University of Alberta, 31 feet northeast of northeast corner of Arts Building. Tablet in top of pier. Elevation 2,204 162

High level bridge highway and C P Ry 1 over north Saskatchewan River. North face of ballast wall on south concrete abutment 4 feet 4 inches above bridge seat and 1 foot east of west end of same. Bolt set horizontally No H 49 Elevation 2,175 281

Subsequent levelling indicates that the elevation of this bench mark has changed since the original levelling was carried out

Same bridge as last. Mark No H 49. Low down near river-bank in first, easterly concrete footing of first steel trestle tower south of river. tablet in top of footing near northeast corner 8 inches south and 7 inches west of upper edge of lower abutment. No H 50 Elevation 2,052 158

Same bridge as bench mark No H 49. In ballast wall on north concrete abutment tablet in top of portion of wall between C P Ry track and easterly track. First railway 10 inches from north edge and 11 inches from east edge of this portion and 13 feet from east end of wall. No H 51 Elevation 2,172 281

Court-house East wall 23 inches from northeast corner and in first course of sandstone above granite foundation. Bolt set horizontally No 58-H Elevation 2,188 823

Post office West wall 4 feet south of south wall of clock tower and in second course of stone walls above sidewalk. Bolt set horizontally No 58-H Elevation 2,186 173.

Fundamental bench mark in grass plot in front of city weigh scales, at northwest corner of 90th Street and 101-A Avenue, 12 feet from rounded curb of roadway. Tablet in top of pier No 808-C Elevation 2,182 674. Subsurface tablet is 1 foot north of pier

High level bridge highway and C P Ry 1 over North Saskatchewan River. In back wall on north concrete abutment, 30 inches from east end of wall and 18 inches above bridge seat. Bolt set horizontally. No 60-H Elevation 2,168.461

Provincial Parliament building. At southwest corner of westerly wing, 13 feet east of face of the three arches forming the west entrance and 19 feet south of parapet at south end of stairway to entrance. Bolt set horizontally in a face 3 feet 4 inches in width, facing south, in first course of stonework 11 feet above ground. No 61-H Elevation 2,163.940

C N Ry station, in east wall, 67 feet north of southeast corner. Elevation 2,187.309.

This spur mark was established by C N Ry engineers to replace bench mark No 1-1 which was situated in the C N Ry office building that was demolished in 1946.

See Union Junction, North Edmonton, Oliver, Acheson and Ellerslie.

Edson: Public school. Southwest side wall in concrete foundation 6 inches from front corner and 5 feet 9 inches below brickwork -directly beneath corner stone. Bolt set horizontally. No 61-H Elevation 3,043.318

C N Ry two-redded water tank 1/2 mile southwest of station. In north-west face of concrete foundation wall, i.e. the one which is parallel and nearest to main track 2 feet 6 inches to the left of the spout and 3 inches below woodwork. Bolt set horizontally. No 62-H Elevation 2,934.728.

See Yates and Ansell

Edward: Concrete box spur 1 mile northwest of station 3 feet southwest of northeast limit of C N Ry right of way, 10 feet northwest of eleventh pole northwest of mile post 74 from St. Paul Junction, 1,165 feet southeast of road allowance along north boundary of sec 36-58-16 and 330 feet northwest of a private crossing. Bolt set vertically. No DD-11 Elevation 2,058.621

C N Ry water tank, 1 mile east of station. South face of concrete foundation wall, 8 inches from east end of this face, 5 feet 10 inches to the right of the spout and 4 inches below woodwork. Bolt set horizontally. No DD-12 Elevation 2,113.397

See Smoky Lake and Bellia.

Egmont: N A Ry. Concrete bench-mark spur 1 1/2 miles north of station and 60 feet south of sixth pole south of mile post 32 from Carbondale, 3,200 feet southerly from road allowance along north boundary of sec 31-58-21 and 3 feet west of easterly limit of right of way 45 feet north of north mile signs, bolt set vertically. No V-9 Elevation 2,133.741

Concrete bench-mark spur 3 1/2 miles southwest of station and 21 feet west of eighteenth pole west of mile post 28 from Carbondale, 450 feet easterly from road allowance along east boundary of sec 16-58-22 and 4 feet north of southerly limit of right of way bolt set vertically. No V-8 Elevation 2,099.396.

See Opal and Thorhild.

Edon: Concrete box culvert under C P Ry, 400 feet southeast of southwest switch and at mileage 106 2 from Calgary. South east face of northeast headwall, 6 inches below top. Bolt set horizontally. No 245-C Elevation 4,819.845

See Mount Eisenhower and Lake Louise.

Elk Island: C N Ry. See Bruderheim. B M No L-9

Ellerslie: Concrete bench-mark spur, 1 mile south of station, 3 feet west of easterly limit of C P Ry right of way, 40 feet north of ninth pole south of

mile post 90 from Red Deer and 300 feet south of a private crossing. Bolt set vertically. No. H-47 A. Elevation 2,273.024.

See Nisku and Edmonton.

Edmonton; N A Ry. Concrete bench mark pier 1½ miles north of station and 30 feet north of second pole south of mile post 67 from Lethbridge 780 feet southerly from road allowance along north boundary of sec 12-04-30 and 3 feet west of northerly limit of right of way tablet on top of pier. No. V-15. Elevation 2,137.763.

See Alpen and Boyle.

Edmonton; C N Ry. Concrete bench-mark pier 4 miles north of station and 60 feet north of third pole north of mile post 34 from Mirror 300 feet south of a short deep clay cut and 4 feet east of westerly limit of right of way bolt set horizontally. v in north side of pier. No. 57-F. Elevation 2,208.524.

See Lorraine and Huxley.

Edmonton; C P Ry. Fundamental bench mark on 2nd Street E. 126 feet north of 2nd Avenue and 370 feet south of Railway Avenue south of residence of Mr. Louch at east end of Railway Avenue is in use with telephone poles on east side of road allowance along fourth meridian 188 feet south and 26 feet east of northeast corner of sec 12-23-1 tablet in top of pier. No. 288-D-2. Elevation 1,982.181.

Pub or school in west or rear concrete foundation wall 8 feet 3 inches from northwest corner and 3 feet 9 inches below brickwork bolt set horizontally. No. 288-D. Elevation 2,001.887.

Barnhouse on south concrete foundation wall 8 feet 4 inches east of small doorway leading to engine room and 2 feet 8 inches below brickwork, bolt set horizontally. No. 288-D. Elevation 1,971.583.

Concrete bench mark pier 1½ miles northeast of station 3½ miles by travelled road on road allowance 8 ½ feet east boundary of sec 21-23-30 4 feet east of west limit of road allowance and 11 feet south of northeast corner of sec 21 bolt set vertically. No. 825-C. Elevation 2,148.547.

Concrete bench mark pier 7½ miles north of station in road allowance along east boundary of sec 21-24-30 2 feet east of west limit of road allowance and 13 feet south of northeast corner of sec 21 bolt set vertically. No. 288-C. Elevation 2,248.104.

Concrete bench mark pier 4 miles southeast of station and 700 feet east of mile post 108 from Jura on a piece of flat ground about 300 feet in length between two knolls through which the railway runs 4 feet north of northerly limit of right of way bolt set vertically. No. 287-D. Elevation 1,881.947.

Bridge over South Saskatchewan River 6½ miles southeast of station, in south face of east concrete abutment 20 inches below rail level bolt set horizontally. No. 288-D. Elevation 1,928.134.

Concrete bench mark pier 3½ miles southwest of station 875 feet easterly from road allowance along east boundary of sec 9-23-1 and 4 feet north of northerly limit of right of way bolt set vertically. No. 284-D. Elevation 1,871.702.

See Sharrot and Gibbald.

Edmonton; Iron pipe with brass cap 3 miles east of station 3 feet north of northerly limit of N A Ry right of way 30 feet west of mile post 224 from junction with C N Ry and 110 feet east of a private crossing. No. 288-H. Elevation 1,884.916.

Iron pipe with brass cap ½ mile west of station, 288 feet west of west ditch 3 feet south of northerly limit of N A Ry right of way between ditch

and seventh poles east of mile post 228 from junction with C.N Ry. and 11 feet west of Government telephone pole No. 3-1885. No. 329-H. Elevation 1,955.685.

See Arandia and High Prairie.

Edson; C.P. Ry. Section house, 630 feet southeast of station, in northeast or front concrete foundation wall, 10 feet from northerly corner and 8 inches below woodwork, bolt set horizontally. No. 66-D. Elevation 3,265.630
See Brant and Vulcan.

Entrance; Deep rock cut on C.N Ry., 1 mile west of station and at mileage 61.2 from Edson, on a quarter-mile tangent immediately east of point where abandoned Grand Trunk Pacific Ry. grade joins the present line. South end of cut, 20 feet from west end and 20 inches above track level. Bolt set horizontally. No. 93-H. Elevation 3,292.944

Vertical rock exposure, 4 miles southwest of station, 20 feet east of abandoned Grand Trunk Pacific Ry. grade, directly opposite C.N Ry. bridge over Athabasca River at mileage 64.1 from Edson and 360 feet south of the more southerly of two rock cuts. West face of rock 12 feet from north end and at level of railway grade. Bolt set horizontally. No. 94-H. Elevation 3,305.940.

See Hinton and Jasper

Entwistle; C.N Ry. See Evansburg, B.M. No. 72-H

Equity; C.N Ry. See Three Hills, B.M. No. 54-H

Eskdale; C.P. Ry. Public school, in east concrete foundation wall, 15 inches from southeast corner and 2 feet below brickwork, bolt set horizontally. No. 2-10. Elevation 2,684.992

Concrete bench mark peer, 24 miles west of station and 6 feet west of first pole west of mile post 67 from Coronation, 33 feet east of a whistle post for westbound trams, at eighteenth pole east of road allowance along east boundary of sec. 33-38-21 and 3 feet north of southerly limit of right of way; bolt set vertically. No. 2-9. Elevation 2,656.519.

See Stettler and Alex

Erwick; Concrete bench-mark peer $\frac{1}{2}$ mile east of station, 3 feet south of northerly limit of C.P. Ry. right of way, 12 feet east of fifteenth pole west of mile post 74 from Hardisty and 360 feet west of road allowance along east boundary of sec. 1-47-21. Bolt set vertically. No. 674-C. Elevation 2,496.821

See Camrose and Bittern Lake.

Eshier; Iron pipe with brass cap 1,000 feet north of station, 3 feet west of easterly limit of N.A.Ry. right of way, 77 feet south of eleventh pole south of mile post 5 from Ryecroft and 125 feet south of a gate in right of way fence. No. 379-H. Elevation 2,080.507

Concrete bench-mark peer, $\frac{3}{4}$ miles south of station, 3 feet west of easterly limit of N.A.Ry. right of way, 70 feet north of mile post 9 from Ryecroft and 50 feet south of a gate in right of way fence. Tablet on top of peer. No. 380-H. Elevation 2,160.003.

See Spirit River and Woking.

Evansburg; C.N Ry. steel trestle bridge over Pembina River, $\frac{1}{2}$ mile east of station. East concrete abutment, south end of west face, 4 feet 8 inches above bridge seat. Bolt set horizontally. No. 72-H. Elevation 2,666.528.

See Gauford and Wildwood.

Excell; C N Ry Concrete bench-mark pier 2 miles west of station and 14 feet west of thirteenth pole west of mile post 73 from Kindersley, 346 feet westerly from road allowance along east boundary of sec 15-28-5 and 2 feet south of northerly limit of right of way, tablet in top of pier No 8-88. Elevation 2,805-449

See Landine and Owen.

Excellator; N A Ry See Carbondale, B M No V-1

Exchews; P ate girder bridge on C P Ry 1½ miles east of station and at mile post 67 from Calgary. East concrete abutment north end of west face, 3 feet above bridge seat. Bolt set horizontally No 231-L Elevation 4,250 937

Concrete arch culvert under C P Ry 3½ miles west of station and at mileage 60 5 from Calgary. West end of south face 1 foot below top. Bolt set horizontally No 232-L Elevation 4,236 612

Concrete box culvert under C P Ry 4½ miles west of station and at mileage 61 6 from Calgary 3 m. e east of Gap east switch. West face of east abutment, 18 inches north of north headwall and 21 inches below top of water passage. Bolt set horizontally No 233-L Elevation 4,237 049

See Beebe and Canmore.

Fairview; Iron pipe with brass cap 2½ miles east of station 3 feet north of northerly limit of N A Ry right of way and at eleventh pole east of mile post 96 from Wainwright, 200 feet east of road allowance along east boundary of sec 36-81-3 No 438-H Elevation 2,145 075

Iron pipe with brass cap 2½ miles east of station ½ mile north of N A Ry and on east boundary of sec 36-81-3, 350 feet south of northeast corner of section No T 38 Elevation 2,185 484

High school. Tablet in front of south concrete foundation wall, midway between the two basement windows to the left of entrance and at level of base of window sills No 459-H Elevation 2,168 947

United Church. Tablet in front of south concrete foundation wall 2 feet west of entrance and 2 feet 6 inches below woodwork No 480-H Elevation 2,159 699.

Iron pipe with brass cap 2½ miles northwest of station 3 feet southwest of northeast limit of N A Ry right of way and at second pole northwest of mile post 120 from Wainwright 200 feet northwest of road allowance along east boundary of sec 6-82-3 No 461-H Elevation 2,143 621

See Bluesky and Gage.

Fallow; Adanac hotel at east side of the main street. Tablet in front of west concrete foundation wall 42 feet from northwest corner and 5 inches below top of foundation No 347-H Elevation 1,907 335.

See Donnelly and Drew.

Fallies; Concrete bench-mark pier, 1½ miles west of station. 36 feet south of C N Ry track and at mileage 53 65 from Edmonton, 6 feet east of east boundary of sec 17-82-5 120 feet east of a wooden box culvert and at the east side of a gully which crosses the track near the centre of a long clay cut. North face of pier No 70-H Elevation 2,423 916. Bolt set horizontally

See Duffield and Gainsford.

Farm; Iron pipe with brass cap 2½ miles east of station, 3 feet south of northerly limit of N A Ry right of way and at thirteenth pole east of mile post 197 from junction with C N Ry opposite the west end of Strawberry creek trestle and 18 feet west of Government telephone pole No 3-819 No 318-H Elevation 1,896-188.

Iron pipe with brass cap, opposite section bunk-house at station, 45 feet south of N.A.Ry. track, 275 feet east of east switch, 30 feet west of a culvert and between sixth and seventh poles east of mile post 199 from junction with C.N.Ry. No. 319-H. Elevation 1,907.613.

Iron pipe with brass cap, 2 miles west of station, 40 feet south of N.A.Ry. track, 54 feet west of third pole east of mile post 201 from junction with C.N.Ry. and between Government telephone poles 3-968 and 3-969. No. 320-H. Elevation 1,909.972.

See Kinross and Driftpole

Fawcett; Concrete bench mark pier, 2½ miles southeast of station, 4 feet northeast of southwest limit of N.A.Ry. right of way 45 feet northwest of twelfth pole northwest of mile post 79 from junction with C.N.Ry. 660 feet northwest of a wooden box culvert and opposite Government telephone pole No. 1-2881. Tablet on top of pier No. U-21. Elevation 2,030.066.

See Jarvis and Kilsyth

Federal; C.P.Ry. Concrete bench-mark pier, ½ mile west of station and 27 feet east of fifth pole west of mile post 6 from Coronation, 3 feet north of northerly limit of right of way, bolt set vertically No. Z-26. Elevation 2,604.725.

See Coronation and Fleet.

Fedorah; N.A.Ry. Concrete bench-mark pier, 3½ miles south of station and 76 feet north of fourth pole north of mile post 13 from Carbondale, 142 feet south of a private crossing and 2 feet west of easterly limit of right of way, bolt set vertically No. V 3. Elevation 2,123.219.

Concrete bench-mark pier 1 mile south of station and 63 feet south of sixteenth pole south of mile post 16 from Carbondale, 1,880 feet south of a private crossing and 4 feet west of easterly limit of right of way, 990 feet north of Fedorah 1 mile sign bolt set vertically No. V 4. Elevation 2,160.993.

See Bon Accord and Opa.

Ferintosh; C.N.Ry. United Grain Growers' Ltd., engine house, in north concrete foundation wall, 3 feet 8 inches from northeast corner and 5 inches below metal sheathing bolt set horizontally No. 67-F. Elevation 2,470.491.

See New Norway and Doreen.

Fincastle; C.P.Ry. See Taber, B.M. No. 185-C.

Flatbush; Concrete bench-mark pier, ½ mile north of station, 9 feet west of easterly limit of N.A.Ry. right of way, 16 feet north of eleventh pole north of mile post 94 from junction with C.N.Ry., 45 feet north of Government telephone pole No. 2-419 and 1,800 feet north of a wooden box culvert. Bolt set vertically No. U-25. Elevation 2,004.376.

See Kilsyth and Tieland.

Fleet; C.P.Ry. Concrete bench-mark pier, 2½ miles southeast of station and 30 feet west of thirteenth pole west of mile post 10 from Coronation, ½ mile westerly from east boundary of sec. 32-36-12 and 2 feet south of northerly limit of right of way, bolt set vertically No. Z-25. Elevation 2,679.675.

Concrete bench-mark pier, 1 mile west of station and 65 feet east of fourth pole east of mile post 14 from Coronation, ½ mile easterly from east boundary of sec. 10-37-13 and 2 feet south of northerly limit of right of way; bolt set vertically No. Z-24. Elevation 2,735.470.

See Federal and Caster

Fort Saskatchewan; C N Ry. Public school, in southeast stone foundation of two-storyed section, which is the old section, 1 foot from rear or east wall and 2 feet below brickwork, bolt set horizontally No L-5. Elevation 2,051.073.

Iron pipe filled with concrete, 3½ miles northeast of station and 60 feet east of second pole east of mile post 109 from Vermilion, 760 feet east of a private crossing and 3 feet south of northerly limit of right of way, bolt set vertically No. L-6 Elevation 2,063.557

Combined highway and railway bridge over North Saskatchewan River, 1½ miles southwest of station, tablet in top of most westerly concrete pier, near west end of highway deck and 2 feet 6 inches from north end of pier No. L-4. Elevation 2,007.291

See Oliver and Bentford.

Frank; Triple concrete culvert under C P Ry., 400 feet southeast of station Southwest face of culvert in wall between centre and westerly arches, 3 feet 6 inches below top of concrete Bolt set horizontally No. 102-D Elevation 4,207.987

Difficult of access, on account of sidewalk constructed beside culvert

Highest point of rock on Third peak of Turtle mountain, 25 feet 6 inches from Alberta Government Geological Survey station, on a magnetic bearing of north 220 east said Geological Survey station being marked by a stone cairn. Tablet in top of rock No. 65-T Elevation 7,237.684

Rock ledge about 2 feet in length, in a sloping rock face on Third peak of Turtle mountain, 13 feet from bench mark No. 65-T and on the far side of the latter from stone cairn marking Alberta Government Geological Survey station. Tablet in top of rock hidden from view by a covering of gravel No. 66-T Elevation 7,229.938

Mass of rock on South peak of Turtle mountain, 6 feet 6 inches south of Alberta Government Geological Survey station, which is marked by a circle of red and green paint. Tablet in top of rock No. 67-T Elevation 7,220.205.

Mass of rock on North peak of Turtle mountain, 14 inches south of Alberta Government Geological Survey station, which is marked by a square of red and green paint. Tablet in top of rock No. 68-T Elevation 6,921.033

See Hillcrest and Blaumore

Gadsby; C P Ry. Canadian Legion, in ledge of concrete foundation of east or front wall, midway between the two windows and 3 inches from brickwork, bolt set vertically No. Z-16. Elevation 2,666.672

Iron pipe in ground, 2½ miles east of station, 170 feet east of bridge at mileage 39 4 from Coronation and 3 feet north of southerly limit of right of way, brass cap on top of pipe No. Z-17 Elevation 2,640.728.

See Halkirk and Botha.

Gage; Iron pipe with brass cap, on high ground 2 miles southeast of southeast switch, 3 feet northeast of southwest limit of N A Ry right of way, 50 feet southeast of fourth pole southeast of mile post 103 from Wmagami and 445 feet southeast of a private crossing No. 462-H Elevation 2,119.950.

Iron pipe with brass cap ½ mile southeast of southeast switch, 3 feet southwest of northeast limit of N A Ry right of way, 48 feet southeast of thirteenth pole northwest of mile post 104 from Wmagami and 100 feet southeast of road allowance along north boundary of sec 24-82-4 No. 463-H Elevation 2,132.647

Iron pipe with brass cap, 2 miles northwest of northwest switch, 3 feet southwest of northeast limit of N A Ry right of way, 20 feet south-

east of twelfth pole northwest of mile post 107 from Winagami, 500 feet northwest of a farm crossing and 1,800 feet northwest of road allowance along east boundary of sec 3-33-4 No 464-H Elevation 3,150 941

See Fairview and Hines Creek

Gainsford: C N Ry water tank, ½ mile east of station. South face of concrete foundation wall 2 feet to the right of the spout and 1 foot below woodwork. Bolt set horizontally No 71-H Elevation 2,443 443

The bench mark is covered by a steel band extending around tank foundation hence the elevation is recoverable only approximately

See Falls and Evansburg

Galloway: Concrete bench-mark pier 1½ miles east of station, 36 feet south of C N Ry track and between eighth and ninth poles west of mile post 18 from Edson 250 feet west of an iron pipe culvert. North face of pier Bolt set horizontally v No 83-H Elevation 3,243 407

See Buckeridge and Medicine Lodge

Gap: See Enshaw, B.M. No. 233-C.

Gartly: C N Ry Concrete bench mark pier, 1 mile northeast of east switch and opposite seventh pole east of mile post 32 from Hanna, 684 feet east of east mile sign 3,020 feet easterly from road allowance along north boundary of sec 11-30-19 and 2 feet north of southerly limit of right of way bolt set vertically No 8-123 Elevation 2,748 987

Concrete bench mark pier 2½ miles northwest of west switch and 8 feet east of ninth pole east of mile post 36 from Hanna, 60 feet east of a private crossing 2,027 feet easterly from road allowance along east boundary of sec 20-30-19 and 2 feet south of northerly limit of right of way, tablet in top of pier No 8-124 Elevation 2,690 032

See Munson and Michichi

Gayford: C P Ry Concrete bench mark pier 3½ miles southeast of station and at mileage 38 7 from Bassano, 330 feet northerly from road allowance along north boundary of sec 12-24-25 and 5 feet west of easterly limit of right of way bolt set vertically v No 292-D Elevation 3,030 703

Concrete bench-mark pier 2 miles northwest of station and at mileage 64 3 from Bassano 57 feet easterly from road allowance along east boundary of sec 31-26-25 and 3 feet north of southerly limit of right of way, bolt set vertically No 291-D Elevation 3,030 592

See Craighill and Nightingale

Goldsby: Rock cut on C N Ry 2½ miles east of station, 33 feet west of tenth pole east of mile post 6 from Jasper and 780 feet west of a small rock knoll at south side of track. North side of cut, at track level Bolt set horizontally No. 106-H Elevation 3,544 746

C N Ry steel truss bridge over Moette River, ½ mile east of station. West concrete abutment south end of east face, 4 feet 4 inches above bridge seat. Bolt set horizontally No 107-H Elevation 3,577 935

See Jasper and Decoune

Gibbons: C N Ry See Fedorah, B.M. No V-3

Glenaville: Iron pipe with brass cap, 1½ miles east of station, 4 feet north of southerly limit of N A Ry right of way 56 feet west of fourth pole west of mile post 278 from junction with C N Ry and 1,045 feet east of road allowance along east boundary of sec 10-78-22 No 349-H Elevation 1,888 129

Iron pipe with brass cap, on high ground 1 mile west of station 3 feet north of southerly limit of N A Ry right of way and between thirteenth and

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fourteenth pole west of mile post 280 from junction with C N Ry, 225 feet west of road allowance along east boundary of sec 17-78-22 No 280-H Elevation 1,854.631

Concrete benchmark post on high ground 4 miles west of station 3 feet north, east-southwest and to N A Ry right of way and between fourteenth and fifteenth poles west of mile post 280 from junction with C N Ry 120 feet west 1 road and 100 feet along east boundary of sec 18-78-22. Tablet on top of post No 341 H Elevation 1,845.908

Clintown: Concrete box culvert under C P Ry, 2½ miles east of station and at mileage 15.6 from Calgary. Southeast end of northeast face, 15 inches below top. No 67 set horizontal. No 221-H Elevation 3,625.393

See Bearspaw and Cochrane

Goodwin: Iron pipe with brass cap 1½ miles east of Goodwin general store and post office 60 feet west of a pipe culvert about opposite telephone pole No 4-2140 which is 100 feet west of 1½ road and 200 feet south of present highway 10 miles west of station No 644-H Elevation 2,070.840

Iron pipe with brass cap about 100 feet west of the Paw-wa King road church at Goodwin in other location 100 feet south of highway in line with east wall of church No 644-H Elevation 2,070.741

Iron pipe with brass cap 2½ miles west of Goodwin general store and post office at same surface as road 100 feet west at beginning of descent to Bowky River bank No 645-H Elevation 1,971.232

Concrete bench mark post on property owned by Russell A. Moody on left of western bank of Big Bowky River 180 feet northwest of ferry landing and 30 feet northwest of a fence corner No 646-H Elevation 1,873.081

See Debolt and Beanson

Gordondale: Iron pipe with brass cap at a road junction 8½ miles west of Gordondale store and post office 100 feet west of junction and 80 feet south of center line of road No 702-H Elevation 2,239.085

Iron pipe with brass cap at road intersection 100 feet west of Gordondale store and post office 120 feet west and 60 feet north of northeast corner section 7-78-11 on opposite side of road allowance from farm buildings owned by A. F. P. Lammert No 703-H Elevation 2,223.828

Iron pipe with brass cap 2½ miles west of Gordondale store and post office 300 feet west of bridge over Bear Creek (also locally known as Henderson Creek) and 20 feet north of edge of road No 704-H Elevation 2,285.983

Iron pipe with brass cap at entrance to farm owned by F. A. Gerard, 1½ miles west of Gordondale store and post office in south fence line of road allowance 25 feet east of gate No 705-H Elevation 2,334.273

Iron pipe with brass cap at intersection of road allowance 200 yards east of Gordondale store and post office on fence line 40 feet south of northeast corner of section 7-78-10 No 706-H Elevation 2,409.142

Iron pipe with brass cap 2½ miles east of Gordondale store and post office in fence angle 60 feet north of northeast corner sec 9-78-10 No 707-H Elevation 2,616.648

Iron pipe with brass cap 4½ miles east of Gordondale store and post office 1 foot east of survey post at northeast corner section 11-78-10 No 708-H Elevation 2,847.030

Iron pipe with brass cap 6½ miles east of Gordondale store and post office 90 feet west of northeast corner section 7-78-9 No 709-H Elevation 3,537.777

Iron pipe with brass cap, 10½ miles east of Gordondale store and post office 4½ miles west of bridge over Kastuan Creek 1 foot east of survey post at northeast corner section 11-78-8 No 710-H Elevation 3,343.737

Iron pipe with brass cap. 1½ miles east of Gordondale store and post office 2½ miles west of bridge over Kettuan Creek, 1 foot west of survey post at northeast corner section 7-79-8. No. 711-H Elevation 2,397.639

See Bay Tree and Spirit River

Granger, C N Ry. Concrete bench-mark pier. 4½ miles southwest of station and 10 feet north of fifth post north of mile post 84 from Mirror or ninth pole south of road allowance along north boundary of sec. 11-29-25. 6 feet west of easterly limit of right of way, bolt set horizontally in north-west side of pier. No. 49-F Elevation 2,943.013

See Swalwell and Beuzeker

Grande Prairie. Iron pipe with brass cap near farmhouse owned by A. Hust, 8½ miles east of junction of Provincial Highways Nos. 2 and 34 (4 miles north of Grande Prairie) in north fence line of highway 200 feet west of driveway entrance to farm between the lone poles No. 4-2763 and 4-2764. No. 652-H Elevation 2,382.695

Iron pipe with brass cap. 6 miles east of junction of Provincial Highways Nos. 2 and 34, on north limit of highway right of way and 156 feet west of northeast cor. sec. 11-72-5. No. 653-H Elevation 2,236.320

Iron pipe with brass cap. 3½ miles east of junction of Provincial Highways Nos. 2 and 34 at a fence corner on north limit of highway right of way opposite north quarter cor. sec. 9-72-5. No. 654-H Elevation 2,246.051

Iron pipe with brass cap. 1 mile east of junction of Provincial Highways Nos. 2 and 34 on fence line along north limit of right of way, 300 feet west of northeast cor. sec. 12-72-6 and 50 feet west of telephone pole No. 4-3022. No. 655-H Elevation 2,218.985

Iron pipe with brass cap. 3½ miles northeast of station, 4 feet east of westerly limit of N.A. Ry. right of way between eighth and ninth poles south of mile post 46 from Ryecroft, opposite Government telephone pole No. 4-3087 and 200 feet south of road allowance along north boundary of sec. 1-72-6. No. 392-H Elevation 2,274.895

Public school. Tablet in east concrete foundation wall 10 feet from southeast corner and 4 feet below brickwork. No. 383-H Elevation 2,162.631

High school. Tablet in front or west concrete foundation wall, 6 feet 4 inches from southwest corner and 4 feet below brickwork. No. 394-H Elevation 2,163.918

Iron pipe with brass cap on north boundary of post office lot, 75 feet west of northeast corner of building. No. T-50. Elevation 2,155.959.

Iron pipe with brass cap, on a curve 3½ miles southwest of station, 3 feet northwest of southeast limit of N.A. Ry. right of way and at mileage 83.3 from Ryecroft 200 feet southwest of road allowance along south boundary of lot No. 3, Flyingshot Lake Settlement. No. 395-H Elevation 2,146.124

See Clairmont, Dumdale, and Beuzeker

Granta, C P Ry. Concrete bench-mark pier 2½ miles southeast of station and 60 feet south of mile post 4 from Bassano, immediately east of east limit of road allowance along east boundary of sec. 1-22-19 and 6 feet west of easterly limit of right of way, bolt set vertically. No. 305-D Elevation 2,377.128

Concrete bench-mark pier, 1½ miles northwest of station and at eighth pole north of mile post 8 from Bassano, 140 feet southerly from road

allowance along east boundary of sec 22-22-19 and 5 feet west of easterly limit of right of way bolt set vertically No 304-11 Elevation 2 745 972.
See Malpeque and Bassano.

Cranny Lakes; C P Ry Public school, on north or front foundation wall 3 feet 4 inches from northeast corner and 3 feet 8 inches below brickwork, bolt set horizontally No 182-4. Elevation 2 637 768

E C Jones general store in concrete foundation of west side wall 7 feet 6 inches from southwest corner and 18 inches below brickwork bolt set horizontally No 182-C Elevation 2,649 581

See Burdett and Purple Springs

Greenshield's; C N Ry Concrete bench-mark pier 1 mile southeast of station and 35 feet east of twelfth pole west 1 mile past 134 from Biggar 33 feet west of east mile sign 223 feet east of a whistler post for westbound trains and 8 feet south of northerly limit of right of way bolt set horizontally in north aisle of pier No 23-H Elevation 2,232 659

See Heath and Wauzwright

Grindstone; Iron pipe with brass cap, 3 miles north of Grindstone, 140 feet south of northerly corner section 30-78-23, 2 feet east of fence line No 219-H Elevation 2,138 139

Iron pipe with brass cap 2½ miles east of station 3 feet north of northerly limit of N A Ry right of way 40 feet east of seventh pole east of mile post 62 from Wengarno 275 feet east of a corrugated iron pipe cover and 1,383 feet east of road a 1丈ance along east boundary of sec 22-82-23 N. 444-H Elevation 1,913 448

Iron pipe with brass cap 1 mile east of station 3 feet south of northerly limit of N A Ry right of way 20 feet east of ninth pole west of mile post 84 from Wengarno and 250 feet east of road allowance along east boundary of sec 17-82-23 N. 445-H Elevation 1,978 857

Concrete bench mark pier 820 feet west of station 3 feet north of northerly limit of N A Ry right of way and 50 feet west of road allowance along east boundary of sec 18-82-23 Tablet on top of pier No 466-H Elevation 2,003 058

N A Ry station Tablet on rear or south concrete foundation wall midway between the two basement windows near southwest corner and 8 inches below woodwork N 446-H-2 Elevation 2,001 732

Iron pipe with brass cap 2½ miles west of station 3 feet north of northerly limit of N A Ry right of way 30 feet east 1 month pole east of mile post 68 from Wengarno and 100 feet east of road allowance along east boundary of sec 11-82-24 No 447 H Elevation 2,061 324

See Roma, Berwyn, and Warrensville

Gwynne; C P Ry Plate girder bridge over Pipestone creek ½ mile west of station and at mileage 87 2 from Hardisty in south end of west face of east concrete abutment 3 feet 9 inches above bridge seat, bolt set horizontally No 677-C Elevation 2,297 687

See Buttern Lake and Wetaskiwin

Hindbush; C P Ry Alberta Pond elevator in east concrete foundation wall, 1 foot from southeast corner and 3 feet 8 inches below woodwork bolt set horizontally No Z-19 Elevation 2,737 332

Concrete bench mark pier 4½ miles west of station and 8 feet east of fourteenth pole east of mile post 38 from Coronation or Gilbreath pole west of road a 1丈ance along east boundary of sec 29-38-16, or second pole east of bridge at mileage 37 7 3 feet north of northerly limit of right of way, bolt set vertically No Z-18 Elevation 2,886 230

See Veldt and Gadsby

Halbary: C P Ry. Concrete bench-mark pier, 2½ miles northeast of station and at mileage 50 8 from Empress, 18 feet easterly from road allowance along east boundary of sec 29-21-8 and 5 feet south of northerly limit of right of way, bolt set vertically No 362-D Elevation 2,523.942.

See Jenner and Atlee

Hasslet: C P Ry. See Tudor, B M No 294-D.

Hanna: Concrete bench-mark pier, 2½ miles east of station and 30 feet west of fourth pole west of mile post 134 from Kindersley, 330 feet east of a whistle post for eastbound trains, 870 feet westerly from road allowance along east boundary of sec 11-31-14 and 2 feet north of southerly limit of right of way, tablet in top of pier No S-108 Elevation 2,701.800.

Concrete bench-mark pier 2 miles west of station and 396 feet east of mile post 2 380 feet west of a small trestle and 2 feet south of northerly limit of right of way, tablet in top of pier No S-113 Elevation 2,648.632.

Memorial hall, tablet in south or front concrete foundation wall, 3 feet from southeast corner and 3 feet below brickwork No 821-C Elevation 2,684.984.

Public school, a brick building with field stone foundation, on east side of First Street east, between Fifth and Sixth Avenues, in west stone foundation wall, 7 inches from southwest corner and 2 feet 8 inches below base of water-table course, bolt set horizontally No S-109 Elevation 2,689.277.

The Royal Bank of Canada, in east or Main Street wall, 8 inches from southeast corner and second course of brickwork above concrete foundation; bolt set horizontally No S-110 Elevation 2,685.248.

Fundamental bench mark in triangular plot of land 200 yards south of hospital and at southeast corner of Main Street and road allowance along north boundary of sec 9-31-14 52 feet south of south limit of above road allowance and 23 feet east of easterly limit of Main Street, tablet in top of pier No 820-C Elevation 2,589.447.

See Watts and Bonar

Harderville: C P Ry. See Lethbridge, B M No 196-C.

Hargrave: C N Ry. See Medicine Lodge B M No 86-H.

Hooth: C N Ry. Section house 350 feet east of east switch of passing track, in south or front concrete foundation wall, 8 inches from southwest corner and 10 inches below stucco, bolt set horizontally No 34-H Elevation 2,185.664.

See Dunn and Greenshields.

Henry House: C N Ry. steel truss bridge over Boaring River, 2 miles north of station and at mileage 98 1 from Edson. North face of south concrete abutment, 20 inches west of west edge of easterly truss and 2 feet 7 inches above bridge seat. Bolt set horizontally No 101-H Elevation 3,318.749.

C N Ry bridge over Edmonton-Jasper highway, 1 mile south of station and at mileage 99 2 from Edson. South concrete abutment, west end of north face, 4 feet 5 inches above bridge seat. Bolt set horizontally No 102-H Elevation 3,345.275.

See Jasper

High Prairie: Concrete bench-mark pier 3 miles east of station, 4 feet north of southerly limit of N A Ry right of way 87 feet west of twelfth pole west of mile post 231 from junction with C N Ry, between Government telephone poles Nos 3-2007 and 3-2008 and 438 feet west of a private crossing. Tablet in top of pier No 330-H Elevation 1,949.238.

Iron pipe with brass cap, 1 mile east of station, 3 feet south of northerly limit of N A Ry right of way, between fifth and sixth poles west of mile post 233 from junction with C N Ry, between Government telephone poles Nos 3-2069 and 3-2070, 37 feet east of a private crossing and opposite a barn at south side of railway. No 331-H Elevation 1,963.738

Iron pipe with brass cap 2½ miles west of station, 4 feet south of northerly limit of N A Ry right of way and at mileage 238.5 from junction with C N Ry, 163 feet west of a corrugated iron pipe culvert. No. 332-H. Elevation 1,940.804.

See Eulda and Aggie.

High River: C P Ry plate girder bridge over Tongueflag creek, 3 miles north of station and at mileage 35.7 from Twelfth Street east. North concrete abutment, bolt set vertically in bridge seat 6 inches from west edge and 8 inches from south edge. No CC-1 Elevation 3,400.919

C P Ry steel truss bridge over Highwood River, ½ mile north of station. North concrete abutment. Tablet in top of ballast wall, 10 inches from west end and 9 inches from south edge. No CC-2 Elevation 3,403.684

Concrete box culvert under C P Ry, 1½ miles south of station and at mileage 40.25 from Twelfth Street east. Bolt set vertically in top of west headwall 10 inches from north end. No CC-2 Elevation 3,390.139.

See Alderney and Cayley.

Hillcrest: Rock wall immediately northeast of C P Ry track, 1½ miles southeast of station and 120 feet northwest of mile post 82 from Lethbridge. Southwest face of rock 3 feet above track level. Bolt set horizontally. No. 104-D Elevation 4,059.237

Bolt has been removed from drill hole.

See Frank and Burnie.

Hilliard: C N Ry Iron pipe filled with concrete 1,650 feet northwest of station and 35 feet west of mile post 78 from Vermilion, 3 feet south of northerly limit of right of way top of pipe (no bolt). No 1-15 Elevation 2,268.937

Top of pipe is badly rusted and hammered elevation is only approximate. See Chapman and Mundare.

Illies Creek: Iron pipe with brass cap, 4 miles southeast of southeast wye switch 3 feet southwest of northeast limit of N A Ry right of way and at second pole northwest of mile post 109 from Winagami 200 feet northwest of road a wance along north boundary of sec 10-83-4. No 466-H Elevation 2,171.412.

Iron pipe with brass cap near centre of a cut 1½ miles southeast of southeast wye switch 3 feet northeast of southwest limit of N A Ry right of way 3 feet northeast of seventh pole northwest of mile post 111 from Winagami and 400 feet southwest of road aloware along north boundary of sec 21-83-4. No 466-H Elevation 2,155.887

Concrete bench-mark pier on high ground 824 feet southeast of southeast wye switch 3 feet northeast of southwest limit of N A Ry right of way 87 feet northwest of ninth pole southeast of mile post 113 from Winagami and 420 feet southeast of a corrugated iron pipe culvert. Tablet in top of pier. No 467-H Elevation 2,170.669

See Gage.

Clinton: C N Ry steel trestle bridge over Maskwa creek, 3 miles southwest of station and at mileage 58.1 from Edson. West concrete abutment south end of east face 4 feet 6 inches above bridge seat. Bolt set horizontally. No. 92-H Elevation 3,265.301.

See Pedley and Entrance.

Holmes: Concrete bench-mark pier 2½ miles south of station, 3 feet east of westerly limit of C.P.R. right of way, 37 feet south of sixth pole north of mile post 44 from Red Deer and 3 feet south of south limit of a lane running west from Calgary-Edmonton highway. Bolt set vertically. No. H-30-A Elevation 2,884.545.

See Menask and Navare

Holdom: C.N.R. Public school in southeast or front concrete foundation wall, 22 inches from southerly corner and 4 feet 8 inches below brickwork, bolt set horizontally. No. 48-H Elevation 2,294.184

See Torles and Ryley

Hondor: Concrete bench-mark pier 6½ miles south of station 41 feet west of N.A.H. track, 25 feet north of sixth pole north of mile post 116 from junction with N.A.H. and 60 feet north of Government telephone pole No. 2-1163 at the east edge of the farthermost of two sandy knolls at west side of track. Bolt set vertically. No. U-31 Elevation 1,984.281

Concrete box pier mark pier 24 ½ miles south of station 44 feet east of N.A.H. track, 55 feet west of first pole north of mile post 120 from junction with C.N.R. and 20 feet south of Government telephone pole No. 2-1294. Bolt set vertically. No. U-32 Elevation 1,959.744

Concrete box pier mark pier 27 ½ miles south of station 42 feet east of N.A.H. track, 60 feet north of 11 until four north of mile post 124 from junction with C.N.R. 420 feet north of an unused road crossing and 300 feet south of a treeline. Bolt set vertically. No. U-33 Elevation 1,926.648.

See Chisholm and Smith

Hortobhai: Iron pipe with brass cap at bridge over Hortobhai River, ½ mile south of Hortobhai post office, 27 feet northeast of northeast end of bridge and 35 feet north west of centre line of road. No. 747-H Elevation 1,486.149

Iron pipe with brass cap 14 m. ss north of Hortobhai post office 84 feet west, east quarter corner section 23-93-23 and 1 foot east of fence line. No. 748-H Elevation 1,480.213

Iron pipe with brass cap 2 miles south of bridge over Meshke River, 116 feet ss 18 m. ss northeast corner section 23-93-23 and 30 feet west of centre line of road. No. 749-H Elevation 1,628.274

Iron pipe with brass cap at bridge over Meshke River 180 feet northeast of northeast end of steel span of bridge 106 feet northwest of centre line of road 7 m. ss 26 feet above level of grade. No. 750-H Elevation 1,328.141

Iron pipe with brass cap at junction of a bush road leading west from a point on the highway 0.9 miles north of the south end of a 3 mile tangent, 2½ miles north of bridge over Meshke River at west edge of brushy right of way and 38 feet ss 18 m. ss of centre line of bush road. No. 751-H Elevation 1,580.273

Iron pipe with brass cap 6 miles north of bridge over Meshke River and 2 miles south of bridge over 8th Ave. Creek 20 feet south of mile post 80 from Crowsnest Hwy., 45 feet west of centre line of road. No. 752-H Elevation 1,709.913

Iron pipe with brass cap at bridge over Slim's Creek about 8 miles north of Meshke River 108 feet south of bridge and 56 feet east of centre line of road. No. 754-H Elevation 1,805.066

Iron pipe with brass cap, 2½ miles north of bridge over Slim's Creek and 7½ miles south of crossing of 25th Base Line 20 feet south of a graded crossing and 30 feet west of centre line of road. No. 755-H Elevation 1,800.126.

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GEOGRAPHIC SURVEY OF CANADA

Iron pipe with brass cap at bridge over a small creek at the north end of a 10½-mile tangent, 4½ miles south of crossing of 25th Base Line 338 feet north of bridge and 60 feet east of centre line of road No. 736-H Elevation 2,109 175.

Iron pipe with brass cap 2½ miles south of crossing of 25th Base Line, near north end of a stand of large spruce 380 feet south of mile post 90 from Grunshaw and 480 feet south of a corrugated pipe culvert 45 feet west of centre line of road No. 737-H Elevation 2,241 388.

Iron pipe with brass cap at crossing of 25th Base Line 100 feet south of shoulder 25th Base Line and 54 feet west of centre line of road No. 738-H Elevation 2,274 253.

25th Base Line beach mark Top of corner post at northeast corner section 31 36-22 No. 185 Base Line listed elevation 2,299 30 Geodetic elevation 2,294 031

Iron pipe with brass cap at bridge over Gravina Creek about 2 miles north of crossing of 25th Base Line 315 feet north of bridge and 45 feet west of centre line of road No. 739-H Elevation 2,324 158.

Iron pipe with brass cap at Twin Lakes about 4½ miles north of 25th Base Line 60 feet north of centre line of side road to lake and 54 feet east of centre line of main road No. 740-H Elevation 2,336 809.

Iron pipe with brass cap at a curve at mile post 100 from Grunshaw, about 1,000 feet north of a depression in the road, 45 feet west of centre line of road and directly opposite the mile post No. 741-H Elevation 2,313 681.

Iron pipe with brass cap 8½ miles south of bridge over Kemp Creek, 6 miles north of junction of side road to a lake at intersection of the old original road and some 800 feet north of a bump or knoll on the highway, 180 feet north of a pipe culvert, 18 feet east of centre line of old road and 48 feet west of that of main road No. 742-H Elevation 2,085 815.

Iron pipe with brass cap about 8½ miles south of bridge over Kemp Creek, 10 feet north of a cross grade opposite a gap at H-1 and 80 feet east of centre line of road No. 743-H Elevation 1,956 211.

Iron pipe with brass cap at junction of a bush road leading northwesterly about 64 m to south of bridge over Kemp Creek 23 feet east of centre line of bush road and 80 feet west of that of main road No. 744-H Elevation 1,899 343.

Iron pipe with brass cap at an old road construction ramp, 3½ miles south of bridge over Kemp Creek 40 feet south of a cross grade and 30 feet west of centre line of road No. 745-H Elevation 1,963 097.

Iron pipe with brass cap at mile post 110 from Grunshaw and about 1½ miles south of bridge over Kemp Creek opposite the mile post and 60 feet southwest of centre line of road No. 746-H Elevation 1,524 747.

Iron pipe with brass cap at bridge over Kemp Creek 72 feet northwest of bridge and 80 feet northeast of centre line of road No. 747-H Elevation 1,451 377.

Iron pipe with brass cap near a pipe culvert under an 8-foot 811 2½ miles north of bridge over Kemp Creek and about 64 m to south of bridge over Keg River 340 feet northwest of culvert and 45 feet southwest of centre line of road No. 748-H Elevation 1,025 525.

Iron pipe with brass cap 2½ miles south of crossing of 25th Base Line, 84 feet north of a cross grade and 42 feet west of centre line of road No. 749-H Elevation 1,277 409.

Twenty-sixth Base Line B.M. No. 163 Elevation 1,228 755

Twenty-sixth Base Line B.M. No. 164 Elevation 1,239 204.

Iron pipe with brass cap at crossing of 26th Base Line, $1\frac{1}{2}$ miles south of bridge over Keg River opposite sign post '26th Base Line' and 60 feet east of centre line of road No. 770-H Elevation 1,330 102

Iron pipe with brass cap $\frac{1}{2}$ mile northeast of bridge over Keg River, about 300 feet north of end of first curve from Keg River 310 feet north of east quarter section corner 12-101-23, in line with telephone poles No. 771-H Elevation 1,317-130

Iron pipe with brass cap, at junction of road to Keg River Settlement, $2\frac{1}{2}$ miles northeast of bridge over Keg River, 130 feet north of north end of pipe culvert under branch road, 63 feet east of centre line of main road No. 772-H Elevation 1,344 785

Iron pipe with brass cap $1\frac{1}{2}$ miles north of junction of road to Keg River, 1,200 feet north of mile post 126 from Grunshaw, 1950 feet north of a pipe culvert between the present road and the old road 42 feet east of the former and 27 feet west of the latter No. 773-H Elevation 1,324 637

Iron pipe with brass cap at a hay meadow on west side of road $4\frac{1}{2}$ miles south of bridge over Boyer (Paddle) River 200 feet north of a pipe culvert and 45 feet west of centre line of road No. 774-H Elevation 1,294-057

Iron pipe with brass cap $2\frac{1}{2}$ miles south of bridge over Boyer (Paddle) River and at mile post 120 from Grunshaw, 50 feet east of centre line of road and opposite the mile post No. 775-H Elevation 1,264 834

Iron pipe with brass cap at bridge over Boyer (Paddle) River, 370 feet north of bridge and 90 feet south of a cross grade 30 feet east of centre line of road No. 776-H Elevation 1,243-434

Iron pipe with brass cap at an old hog barn about $1\frac{1}{2}$ miles northeast of bridge over Boyer (Paddle) River 120 feet east of easterly wall of barn, 20 feet south of centre line of road and in line with telephone poles No. 777-H Elevation 1,231-703

Iron pipe with brass cap near a sunken slough bottom on southeasterly side of road $1\frac{1}{2}$ miles southwest of junction of road to Metis Colony store, midway between first and second telephone poles southwest of slough 60 feet southeast of centre line of road No. 778-H Elevation 1,216 928

Iron pipe with brass cap, at junction of road to Metis Colony store and administrative buildings of Paddle Prairie Settlement, in angle of fences, 50 feet east of main road and 30 feet north of side road No. 779-H Elevation 1,188 542

Iron pipe with brass cap directly in front of Metis Colony hospital, 1 foot south of white picket fence along south limit of road to highway No. 780-H Elevation 1,184-723

See Notekiwin

Headless: Iron pipe with brass cap, $\frac{1}{2}$ mile east of station, 3 feet south of northerly limit of N A Ry right of way and between sixth and seventh poles east of mile post 71 from Ryecroft 20 feet east of road allowance along east bank lary (see 22-71-9 No. 401-H Elevation 2,443 241)

Iron pipe with brass cap $2\frac{1}{2}$ miles southwest of station, 3 feet southeast of southwest limit of N A Ry right of way and between seventh and eighth poles northerly $\frac{1}{2}$ mile post 74 from Ryecroft about $\frac{1}{2}$ mile southeast of road allowance along north boundary of sec 20-71-9 and 57 feet south of whistle post for crossing of same No. 402-H Elevation 2,440 965

See Wembley and Beaverlodge.

Wobolds: C N Ry In foundation of demolished shop of former Buckeye Machine Company $\frac{1}{2}$ mile northeast of station Land now part of a farm and farm buildings have been built on old Machine Company foundations.

at most southerly end of foundation which projects southerly from barn, on southeast face of foundation 17 inches from southerly corner and 8 inches below top directly under a fence opposite seventh pole north of mile post 123 from Mirror belt set horizontally No. 41-F Elevation 3,472.420.

See Delacour and Calgary

Hassar; C P Ry Concrete bench-mark pier, 3 miles northwest of station and 100 feet east of mile post 24 from Bassano at crossing of road allowance along north boundary of sec 21-24-20 and 4 feet south of northerly limit of right of way bolt set vertically No. 300-D Elevation 2,941.339

This bench mark was not found during inspection of 1947

See Chancellor and Makepeace.

Hawley; C N Ry Concrete bench-mark pier 1½ miles north of station and 50 feet south of seventh pole east of mile post 42 from Mirror or two-fifth pole north of road allowance along north boundary of sec 20-34-23 15 feet south of a private crossing and 4 feet east of westerly limit of right of way, bolt set horizontally on north side of pier No. 56-F Elevation 2,925.500

See Elcra and Trechu

Hyle; N A Ry Concrete bench-mark pier, 1½ miles west of station and 23 feet east of seventeenth pole west of mile post 99 from Carbondale 10 feet south of northerly limit of right of way tablet in top of pier No. V-27 Elevation 1,904.954

See Noral and Venice

Hylton; Public school (8 D No 3194) Tablet in concrete foundation of west side wall midway between second and third basement windows from front corner and 2 feet below woodwork No. 406-H Elevation 2,465.153

Iron pipe with brass cap 1½ miles north west of stat. at 2 feet west of east limit of road allowance along east boundary of sec 22-73-11 150 feet north of ½ sec corner and 66 feet south of N A Ry track No. I-70 Elevation 2,440.790.

Concrete bench-mark pier 4½ miles northwest of station 3 feet north of southerly limit of N A Ry right of way and at seventh pole east of mile post 93 from Ryecroft 50 feet west of road allowance along east boundary of sec 19-73-11 and at the west end of a long cut Tablet in top of pier No. 407-H Elevation 2,499.798

See Albright and Lymburn

Iddeleigh; C P Ry Concrete bench-mark pier, 4 miles northeast of station and at mileage 62.9 from Empress, 50 feet northerly from road allowance along east boundary of sec 34-20-10 at the north end of a deep cut and 5 feet west of easterly limit of right of way, bolt set vertically No. 348-D Elevation 2,577.505.

Concrete bench-mark pier, 2½ miles east of stat. at and at mileage 60.65 from Empress 1,020 feet easterly from road allowance along east boundary of sec 36-20-10 and 20 feet north of track, bolt set vertically No. 349-D Elevation 2,532.917

Concrete bench mark pier 4 miles southwest of station and at mileage 67.2 from Empress, immediately south of a private crossing and 6 feet east of westerly limit of right of way, bolt set vertically No. 347-D Elevation 2,535.275.

See Denhart and Jenner

Imhoff; Large concrete arch culvert under C P Ry, 3½ miles southwest of station and at mileage 71.8 from Twelfth Street east. Tablet in top of coping of east headwall, 6 inches from south end. No. H-23. Elevation 3,076.497

Post office. In stone foundation of northwest or Pine Street wall, 6 feet from front corner and 2 feet 2 inches below woodwork. Bolt set horizontally. No H-24. Elevation 3,107.380.

See Bowden and Penhold.

Imhoff; C N Ry. Canadian Bank of Commerce, in east concrete foundation wall 2 feet from northeast corner and 16 inches below woodwork, bolt set horizontally. No L-27. Elevation 2,235.231.

Iron pipe filled with concrete 4½ miles southeast of station and 65 feet west of thirteenth pole west of mile post 27 from Vermilion, 2 feet north of southerly limit of right of way, bolt set vertically. No. L-28. Elevation 2,148.942.

See Ranfurly and Minburn.

Inverlak; C P Ry. See Norfolk, B M. No S-180.

Irvin; C N Ry. Foundation of demolished water tank, 2½ miles southeast of station in north end of concrete foundation wall, 2 feet 6 inches to the left of the spout and 3 inches below woodwork, bolt set horizontally. No. 38-H. Elevation 3,198.400.

See Wanwright and Jarrow.

Irviniana; Fundamental bench mark, about ½ mile southeast of town, ½ mile south of C P Ry (Irviniana-Bassano) and 120 feet north of northeast corner of sec 16-27-26 and 3 feet east of west limit of road allowance, tablet in top of pier. No 46-F-2. Elevation 3,059.437.

Alberta Pacific cylinder No. 99, at C P Ry station in south concrete foundation wall, 19 feet from southwest corner and 9 inches below metal sheathing, bolt set horizontally. No 280-D. Elevation 3,096.787.

Concrete bench-mark pier, 2 miles east of C P Ry station and at mileage 70 1 fm in Bassano 60 feet westerly from road allowance along east boundary of sec 22-27-26 and 2 feet north of southerly limit of C P Ry right of way, tablet in top of pier. N 280-D-2. Elevation 3,094.135.

This bench mark was not found during inspection of 1947.

Concrete box culvert under C N Ry 2½ miles south of station and at mile post 100 from Mirror in centre of east face, 8 inches below top, bolt set horizontally. No. 46-F. Elevation 3,098.302.

See Craugdhu, Bezecker, and Kathryn.

Irvine; C P Ry. Public school in south slope foundation wall, 6 inches from southwest corner and 22 inches below concrete plinth, bolt set horizontally. No 180-C. Elevation 2,800.500.

Kambach Block southwest of the station, in stone foundation of east side wall, 6 inches from southeast corner and 8 inches below brickwork, bolt set horizontally. No 180-C. Elevation 2,803.135.

Plate girder bridge 2 miles west of station and at mileage 127 6 from Swift Current, in south end of east face of west concrete abutment, 6 inches below top, bolt set horizontally. No 181-C. Elevation 2,479.987.

Plate girder bridge 3 miles west of station and at mileage 128 6 from Swift Current, in south end of west or rear face of west concrete abutment, 6 inches below top, bolt set horizontally. No 182-C. Elevation 2,485.741.

See Larmour and Pashley.

Islay; Iron pipe filled with concrete, 5½ miles southeast of station and 7 feet west of third pole east of mile post 104 from North Battleford, 625 feet east of a whistle post for westbound trains and 3 feet south of northerly limit of right of way, bolt set vertically. No L-43. Elevation 2,123.576.

Concrete bench-mark pier, 1,680 feet west of station and 40 feet east of mile post 110 from North Battleford, 300 feet westerly from road allow-

ance along east boundary of sec 8-51-4 and 3 feet south of northerly limit of right of way, tablet in top of pier No. L-41 Elevation 2,001 529
 See Borradaile and Kitscoty

Jessiecon: C P Ry Concrete box culvert, 600 feet west of west switch and at mileage 86 8 from Dunmore, in south face of culvert, immediately above west wing-wall, bolt set horizontally No 190-C Elevation 2,739 432
 See Taber and Chin

Jessie: C N Ry Concrete bench-mark pier, 1½ miles west of west switch and at fourteenth pole west of mile post 128 from Hanna, 206 feet easterly from road allowance along east boundary of sec 30-23-29 and 2 feet north of southerly limit of right of way, bolt set vertically No S-170 Elevation 3,422 311
 See Barlow Junction and Chestermere Lake

Jarrow: C N Ry Concrete bench-mark pier, 1 mile southeast of station and 50 feet east of fifth pole west of mile post 24 from Wanwright, 130 feet westerly from road allowance along north boundary of sec 34-48-10 and 7 feet south of northerly limit of right of way, bolt set horizontally in northeast side of pier No 40-H Elevation 2,337 317
 See Irma and Kinsella

Jarvie: Concrete bench-mark pier, 2½ miles south of station, 10 feet east of westerly limit of N A Ry right of way, 50 feet south of tenth pole south of mile post 72 from junction with C N Ry and 50 feet north of Government telephone pole No 1-2818 Tablet in top of pier No U-19 Elevation 2,023-750

Subsequent inspection of this bench mark discloses that the pier is loose in the ground and can be rocked, the elevation, therefore, may not be reliable.

Concrete bench-mark pier, 1 mile north of station, 4 feet west of easterly limit of N A Ry right of way and at mileage 75 3 from junction with C N Ry 68 feet south of road allowance along north boundary of sec 23-63-27 Tablet in top of pier No U-20 Elevation 2,013 373

See Pilbrough and Fawcett.

Jasper: Dismantled Grand Trunk Pacific Ry bridge over Fiddle River 30½ miles (by Edmonton-Jasper highway) northeast of station, 2 miles northwest of junction of abandoned railway grade with highway and about 1½ miles downstream from highway bridge East concrete abutment, south end of west face, 4 feet 3 inches above bridge seat Iron bolt set horizontally No. 96-H Elevation 3,252-395.

Long curved rock cut on Edmonton-Jasper highway, 24½ miles north of station and ½ mile north of an abandoned lime kiln East side of cut, 150 feet from south end and 1 foot above road surface Bolt set horizontally No. 97-H Elevation 3,267-129.

Wooden truss bridge over Rocky River on Edmonton-Jasper highway, 21½ miles north of station North concrete abutment, west end of south face, 3 feet above bridge seat Bolt set horizontally No 98-H Elevation 3,283 835

The bench mark has been rendered inaccessible by a bridge timber erected at the time of conversion from a railway to a highway bridge, hence the elevation is recoverable only approximately

Rock side cut at east side of Edmonton-Jasper highway, 17 miles north of town and ½ mile northeast of site of Interlaken station, in smooth vertical face about 4 feet long and 2 feet in height 150 feet from south end of cut, bolt set horizontally about 1 foot above road surface, facing Jasper Lake No. 99-H Elevation 3,296-081

This bench mark was not found during inspection of 1944.

Steel truss bridge over Athabasca River on Edmonton-Jasper highway 12½ miles north of station and ½ mile northeast of C N Ry crossing. Northeast concrete abutment northwest end of southwest face 5 feet above bridge seat. Bolt set horizontally No. 100-H Elevation 3,303.086

The bench mark has been rendered inaccessible by a bridge timber erected at the time of conversion from a railway to a highway bridge, hence the elevation is recoverable only approximately.

Curved rock cut on C N Ry., the farther south of two adjacent cuts, 3½ miles north of station and 970 feet north of mile post 103 from Edson. West side of cut, bolt set horizontally in a projection of rock facing north 70 feet from south end of cut and at track level No. 103-H Elevation 3,420.783

Jasper Park administration building. In buttress at southeast corner of one-story extension at south end of building, bolt set horizontally in southwest face of large stone at base of buttress No. 104-H Elevation 3,483.640

Concrete bench mark pier, 2½ miles southwest of station 50 feet north of C N Ry main track, 520 feet west of Wynd east switch and 1,280 feet east of a double concrete tile culvert. North face of pier. Bolt set horizontally No. 105-H Elevation 3,504.288.

See Entrance, Henry House, and Geikie.

Jenner: C P Ry. Station, in northwest concrete foundation wall 9 feet northeast of rear entrance and 5 inches below woodwork, bolt set horizontally No. 350-D Elevation 2,478.365.

Concrete bench mark pier, 3 miles northeast of station and at mileage 55 6 from Empress 48 feet west of a private crossing about ½ mile westerly from east boundary (see 11-21-9 sec., 5 feet south of northerly limit of right of way, bolt set vertically No. 351-D Elevation 2,472.387

See Iddesleigh and Halbury.

Joussards: Iron pipe with brass cap. 2½ miles east of station, 47 feet south of N A Ry. track 65 feet east of third pole east of mile post 209 from junction with C N Ry and between Government telephone poles Nos. 3-1240 and 3-1241 No. 323-H Elevation 1,967.122.

Iron pipe with brass cap. ½ mile west of station, 40 feet north of N A Ry. track (opposite a clearing), 167 feet east of mile post 213 from junction with C N Ry. between Government telephone poles Nos. 3-1345 and 3-1346 and 180 feet west of a corrugated iron pipe culvert No. 324-H Elevation 1,961.186.

Iron pipe with brass cap. on a curve between two long tangents, 3½ miles west of station, 40 feet north of N A Ry. track 42 feet west of south pole west of mile post 215 from junction with C N Ry. and between Government telephone poles Nos. 3-1455 and 3-1456—immediately west of point where railway and highway diverge No. 325-H Elevation 1,983.610.

See Driftvale and Arcadia.

Judah: Iron pipe with brass cap. 4 miles south of station, 3 feet northeast of southwest arm of N A Ry. right of way 25 feet northwest of tenth pole southeast of mile post 38 from Wmagan, 300 feet southeast of a trestle and 60 feet northwest of road allowance along east boundary of sec. 12-82-22, No. 432-H Elevation 1,885.650.

Iron pipe with brass cap. 1½ miles south of station 3 feet west of easterly limit of N A Ry. right of way and between second and third poles north of mile post 40 from Wmagan, 200 feet south of road allowance along north boundary of sec. 23-82-22 No. 433-H Elevation 1,884.419.

Iron pipe with brass cap, near head of grade into valley into Peace River $\frac{1}{2}$ mile north of station, 3 feet east of westerly limit of N.A.Ry right of way, 50 feet south of seventh pole north of mile post 42 from Wainwright and 325 feet south of a corrugated iron pipe culvert. No 434-H Elevation 1,826.990

See Nampa and Peace River

Junkins; C.N.Ry. See Wildwood, B.M. No. 73-H

Kamaskis; C.P.Ry. See Seebe, B.M. No. 230-C and Exshaw, B.M. No. 231-C

Kathleen; Concrete bench-mark pier 1 $\frac{1}{2}$ miles southeast of station, 3 feet northeast of southwest limit of N.A.Ry right of way 10 feet northwest of second pole southeast of mile post 254 from junction with C.N.Ry., 820 feet southeast of a corrugated iron pipe culvert and 348 feet northwest of road allowance along east boundary of sec 23-76-19. Tablet on top of pier No 339-H Elevation 2,085.635.

Iron pipe with brass cap 1 $\frac{1}{2}$ miles northwest of station, 4 feet southwest of e. (the east) limit of N.A.Ry right of way and between second and third poles northwest of mile post 257 from junction with C.N.Ry., 42 feet southeast of a private crossing and 1230 feet southeast of a corrugated iron pipe culvert No 340-H Elevation 2,074.558.

See Keeze and McLennan

Kathryn; C.N.Ry. Concrete box culvert, $\frac{1}{2}$ mile northeast of station and at mileage 103.9 from Mirror, between fifth and sixth poles northerly from road allowance along east boundary of sec 18-26-27, in north end of southeast face 8 inches below top, bolt set horizontally No. 44-F Elevation 3,198.532

Concrete box culvert, 3 $\frac{1}{2}$ miles northeast of station and at mileage 103.1 from Mirror at fourth pole northerly from road allowance along east boundary of sec 28-28-27, in centre of west face 8 inches below top, bolt set horizontally No. 45-F Elevation 3,114.498

See Irricana and De Meur

Kavanaugh; C.P.Ry. Concrete bench-mark pier 1 mile north of station and 20 feet north of fourth pole south of mile post 74 from Red Deer 85 feet northerly from road allowance along north boundary of sec 36-48-25 and 3 feet east of westerly limit of right of way, bolt set vertically No H-45-A Elevation 2,492.003

See Millet and Leduc

Kensley; Iron pipe with brass cap on high ground, 1 mile southeast of southeast switch, 18 feet southeast of mile sign, 45 feet northeast of N.A.Ry track and at twelfth pole southeast of mile post 247 from junction with C.N.Ry. No. 336-H Elevation 2,064.125

Iron pipe with brass cap 1 mile northwest of northwest switch 180 feet southeast of mile sign, 47 feet southwest of N.A.Ry track and 15 feet northwest of mile post 249 from junction with C.N.Ry. No 337-H Elevation 2,090.016.

Iron pipe with brass cap 3 miles northwest of northwest switch 47 feet southwest of N.A.Ry track and between fourth and fifth poles northwest of mile post 251 from junction with C.N.Ry. 53 feet northwest of a private crossing and 94 feet northwest of a whistle post for eastbound trains. No. 338-H Elevation 2,085.205.

See Agape and Kathleen

Korensky; Concrete bench-mark pier, 1 mile east of station, 3 feet south of northerly limit of C N Ry right of way 30 feet west of sixth pole west of mile post 36 from St. Paul Junction and 2,495 feet west of road allowance along east boundary of sec. 19-58-21 Bolt set vertically No. DD-1 Elevation 2,096.754

Concrete bench-mark pier, 3 miles east of station, 3 feet south of northerly limit of C.N Ry right of way and at first pole east of mile post 38 from St. Paul Junction 1,865 feet west of road allowance along east boundary of sec. 21-58-21 Bolt set vertically No. DD-2. Elevation 2,159.214

See Radway

Kileyth; Concrete bench-mark pier, $\frac{1}{2}$ mile south of station, 6 feet east of westerly limit of N A Ry right of way and at mileage 86 4 from junction with C N Ry, 450 feet south of road allowance along north boundary of sec. 36-64-2 and at the north end of a three-mile tangent. Tablet in top of pier No. U-23 Elevation 2,054.921

Concrete bench-mark pier, 3 miles north of station, 10 feet east of westerly limit of N A Ry right of way, 40 feet south of third pole north of mile post 90 from junction with C N Ry, 40 feet south of Government telephone pole No. 2-274 and 1,880 feet north of a bridge Bolt set vertically No. U-24. Elevation 2,042.360

See Fawcett and Flatbush

Kingman; C N Ry Public school, tablet in north concrete foundation wall, 16 inches from northeast corner and 6 inches below woodwork. No. 74-F-2 Elevation 2,466.984

Farmhouse owned by Olof Skulin, on northwest $\frac{1}{4}$ sec. 19-48-19, 32 miles south of station and 200 feet east of railway, tablet in west concrete foundation wall 14 inches from southwest corner and 3 inches below wood-work. No. 73-F-2. Elevation 2,463.098.

Concrete bench-mark pier, 1 mile south of station and at mile post 13 from Tofield, 25 feet north of a private crossing and 4 feet east of westerly limit of right of way, bolt set horizontally on north side of pier No. 74-F. Elevation 2,453.150

This bench mark was not found during inspection of 1947

See Bardo and Dunant.

Kinross; N A Ry Concrete bench-mark pier, 1 mile southeast of south switch and 95 feet north of north pole north of mile post 252 from Carbondale, 148 feet north of south mile-sign and 49 feet east of track, bolt set vertically No. V-69. Elevation 1,524.753

Concrete bench-mark pier, 24 miles northwest of north switch and 50 feet south of first pole north of mile post 256 from Carbondale, 70 feet southerly from north boundary of sec. 14-85-7 and 50 feet east of track, bolt set vertically No. V-70. Elevation 1,526.260.

This bench mark has obviously heaved, elevation not precise.

See Cheecham and Anzac.

Kinsella; C.N Ry Red granite boulder, about 5 feet by 3 feet, $1\frac{1}{2}$ miles northwest of station and at seventh pole west of mile post 33 from Wainwright or at fourth pole east of a road crossing, 57 feet south of northerly limit of right of way, bolt set horizontally No. 41-H Elevation 2,301.851.

See Jarrow and Philips.

Kinross; Iron pipe with brass cap, $\frac{5}{8}$ miles east of station, 44 feet south of N A Ry track, 43 feet east of sixth pole east of mile post 186 from junction with C N Ry and between Government telephone poles Nos. 3-450 and 3-451 No 315-H Elevation 1,920 339

N A Ry steel truss bridge over Swan River $\frac{1}{2}$ mile east of station. Tablet in top of center concrete pier, 18 inches from south (upstream) point No 316-H Elevation 1,934 480

Iron pipe with brass cap, $\frac{3}{4}$ miles west of station, 3 feet north of southerly limit of N A Ry right of way, 60 feet west of tenth pole west of mile post 184 from junction with C N Ry, 225 feet west of a trestle and 450 feet east of road allowance along east boundary of sec 18-73-10 No 317-H Elevation 1,901 120

See Astineau and Faust.

Lipp; C P Ry section house, at southwest side of railway 600 feet northwest of station. Front or northeast concrete foundation wall, 21 inches from easterly corner and 10 inches below station brick sheathing. Bolt set horizontally No 81-D Elevation 3,037 944

See Nobleford, Lethbridge, and Monarch

Kirkcaldy; C P Ry section house. Front or southwest concrete foundation wall, 11 feet from southerly corner and 8 inches below station brick sheathing. Bolt set horizontally No 70-D Elevation 3,321 825.

See Vulcan and Champion.

Kirriemuir; C P Ry Concrete bench-mark pier, 3 miles east of station and 40 feet east of fourth pole east of mile post 56 from Kerrobert, about 500 feet west of a private crossing and 3 feet south of northerly limit of right of way bolt set vertically No 2-42 Elevation 2,358 331

Concrete bench mark pier, $1\frac{1}{2}$ miles west of station and at mileage 60 3 from Kerrobert, at east limit of road allowance along east boundary of sec 15-34-3 and 13 feet north of northerly limit of right of way, 5 feet west of road allowance bolt set vertically No 2-41 Elevation 2,352 375.

See Altario and Pasukan

Ellescoy; C N Ry Iron pipe filled with concrete, $\frac{3}{4}$ miles southeast of station and 60 feet west of ninth pole east of mile post 96 from North Battleford, 300 feet east of a whistle post for westbound trains and 2 feet south of northerly limit of right of way, 50 feet west of a 20-foot cut on north side of track, bolt set vertically No 1-45 Elevation 2,235 390

See Islay and Lloydminster

Kneehill; C P Ry See Drumheller, B M No S-130

Lee in Bache; N A Ry Water tank, 700 feet northeast of station, bolt set vertically near southerly corner of concrete valve chamber 10 inches from southwest edge and 10 inches from southeast edge No V-31 Elevation 1,838 770

Concrete bench-mark pier, 3 miles northeast of station and 11 feet east of mile post 116 from Carbondale, 1,110 feet westerly from road allowance along east boundary of sec 9-67-13 and 4 feet south of northerly limit of right of way tablet in top of pier No V-32 Elevation 1,877 447

Concrete bench-mark pier, $\frac{1}{2}$ mile southwest of station and 88 feet north of sixth pole north of mile post 112 from Carbondale 420 feet southerly from road allowance along north boundary of sec 36-68-14, 980 feet southerly from another road crossing and 3 feet west of easterly limit of right of way, tablet in top of pier No V-30 Elevation 1,793 269.

See Venice and Barnegat

Lacombe; One-story brick business building occupied by three stores, at southwest corner of Barnett Avenue and Railway Street. In concrete foundation of southeast side wall, in base of third pilaster from front of building, 9 inches from northeast edge of pilaster and 8 inches below brickwork. Bolt set horizontally. No H-34. Elevation 2,797.688

A M Campbell block, 1920! A two-story brick building at northeast corner of Barnett and Weston Avenues. Bolt set horizontally at centre of south face of base of pilaster at centre of front wall 15 inches below brickwork. No H-34-A. Elevation 2,797.867

Bank of Montreal. North stone foundation wall, 17 inches from northwest corner (at entrance) and 3 inches above sidewalk. Bolt set horizontally. No H-34-B. Elevation 2,798.139

Concrete box culvert under C P Ry, 3½ miles north of station and at mileage 21.8 from Red Deer. Tablet in top of east headwall, 6 inches from north end. H-35. Elevation 2,764.144.

Concrete bench mark pier on Coronation line, 4 miles east of station and 70 feet east of north pole east of mile post 103 from Coronation or fifteenth pole east of road allowance a long east boundary of sec 27-40-26, 63 feet east of a wharf post for westbound trains and 5 feet north of southerly limit of right of way, tablet in top of pier. No Z-1. Elevation 2,923.739.

See Blackfalds, Morningide, and Clive

Lake Louise; Plate girder bridge over Pipestone creek, ½ mile southeast of station in south end of southeast face of west stone abutment, second course above bridge seat bolt set horizontally. No 248-C. Elevation 5,045.347.

Double concrete culvert, 3 miles southeast of station and at mileage 113.5 from Calgary in west end of south face, 18 inches below top, bolt set horizontally. No 247-C. Elevation 4,967.261

Plate girder bridge over Bow river, 1½ miles northwest of station and at mileage 117.8 from Calgary in north face of west concrete abutment, 4 feet below bridge seat bolt set horizontally. No 250-C. Elevation 6,077.768.

See Eldon and Stephen.

Lamerton; CN Ry See Mirror B M No. 63-F

Lamont; C N Ry In foundation of demolished D R Davis Grass Company's elevator 300 feet west of station, in north face of most westerly concrete wall, 4 inches below top of concrete and 6 inches from west face. Bolt set horizontally. No L-11. Elevation 2,139.810

When inspected in 1947 this bench mark was buried under 10 inches of ballast.

Iron pipe filled with concrete, 4 miles southeast of station and 8 feet west of sixth pole east of mile post 89 from Vermilion 3 feet south of northerly limit of right of way, bolt set vertically. No L-12. Elevation 2,168.454.

See Bruderheim and Chapman.

Lanigan; CN Ry Concrete bench mark pier 840 feet west of west switch and 9 feet west of fourteenth pole west of mile post 77 from Kindersley, 1,683 feet east of from road a. owing along east boundary of sec 12-28-6 and 2 feet south of northerly limit of right of way, tablet in top of pier. No B-89. Elevation 2,637.807

See Cereal and Excel

Larmour; C P Ry Plate girder bridge, ½ mile west of station and at mileage 120.4 from Swift Current 8 inches from south end of east face of west concrete abutment 19 inches below bridge seat, bolt set horizontally. No 157-C. Elevation 2,461.337

See Walsh and Irvine

Lethbridge; C P Ry. Concrete box culvert, 2½ miles southeast of station and at mileage 87.4 from Medicine Hat, in centre of southwest face, bolt set horizontally No. 310-D Elevation 2,533.111

Plate girder bridge over irrigation canal, ½ mile northwest of station and at mileage 90.2 from Medicine Hat, in south end of northwest face of east concrete abutment 9 feet above bridge seat, bolt set horizontally No. 309-D Elevation 2,539.904

See Bassano and South Saskatchewan

Lewes; C N Ry. Iron pipe filled with concrete, 1,520 feet southeast of station and 8 feet east of fourth post east of mile post 48 from Vermilion, 205 feet easterly from road allowance along north boundary of sec 33-51-13 and 3 feet south of northerly limit of right of way, bolt set vertically No. L-23 Elevation 2,203.087

Iron pipe filled with concrete, 4½ miles southeast of station and 50 feet west of fourteenth pole west of mile post 43 from Vermilion, 1,080 feet easterly from road allowance along east boundary of sec 25-51-13 and 3 feet south of northerly limit of right of way, bolt set vertically No. L-24 Elevation 2,253.157

See Vegreville and Ranfurly

Lewman; C N Ry. Water tank, ½ miles west of station, in south face of concrete foundation wall, 3 inches below woodwork and directly beneath the spout, bolt set horizontally No. 76-H Elevation 2,609.427

See Wildwood and Niton

Lethbridge; King George school. Front of east concrete block foundation wall, 8 feet 8 inches from northeast corner and 3 feet 8 inches below brickwork. Bolt set horizontally No. H-43-D Elevation 2,399.001

Concrete block, 1906; a concrete block building at northeast corner of Main and North Freeman Streets. Front of south wall, 14 inches from southwest corner and 13 inches above sidewalk. Bolt set horizontally No. H-46 Elevation 2,395.700

Concrete bench-mark pier, 3 miles north of station 3 feet west of eastern limit of C P Ry right of way, 75 feet south of first pole south of mile post 82 from Red Deer and 470 feet south of road allowance along north boundary of sec 11-50-25. Bolt set vertically No. H-48-A Elevation 2,389.709

See Kavanagh and Niakwa

Lethbridge; Concrete bench-mark pier. 3½ miles southwest of south switch and 30 feet south of mile post 200 from Carbondale, 1,280 feet south of a small cut, about midway between crossings of north boundary of sec 25-77-8 and east boundary of sec 36-77-8 and 47 feet west of track, bolt set vertically No. V-55. Elevation 1,800.189

N A Ry Concrete bench-mark pier ½ mile northeast of north switch and 10 feet west of second pole west of mile post 204 from Carbondale, 35 feet west of a long shallow cut on a curve and 32 feet north of track; bolt set vertically No. V-56. Elevation 1,782.902

Concrete bench-mark pier 4½ miles northeast of north switch and 93 feet east of mile post 208 from Carbondale, 70 feet west of the east end of a cut and of the beginning of a curve and 31 feet north of track, bolt set vertically No. V-57. Elevation 1,829.642

This bench mark was not found during inspection of 1947

See Conklin and Chard

Lethbridge; Concrete bench-mark pier. 1½ miles south of south switch and 75 feet south of eleventh pole north of mile post 204 from Carbondale, 575 feet southerly from north boundary of sec 25-88-7 and 60 feet west of track, bolt set vertically No. V-77. Elevation 1,817.400

BENCH MARKS IN ALBERTA

40

NA Ry Concrete bench mark per 1/4 miles north of north switch and 10 feet south of mile post 268 from Cardston about 1/2 mile northerly from north boundary of sec 9-27-7 and 48 feet west of track bolt set vertically No. V-73. Elevation 1,425 250.

Evidence of heaving present

See Anzac and Lytton

Lethbridge, C P R R station Rear or south other foundation wall 4 feet from southeast corner and in third course below brickwork Bolt set horizontally No 196-4. Elevation 2,984 674

Alberta Aben monument erected by National Parks Bureau, in Galt Gardens. Tablet at centre of rear of West face of concrete base 4 inches below top No 813-1. Elevation 2,980 470

Fundamental bench mark in Galt Gardens 20 feet west of inner edge of sidewalk on Seventh Street and 97 feet north of inner edge of sidewalk on Third Avenue. Tablet on top of peer No 814-6. Elevation 2,982 478. Subsurface tablet is 1 foot north of peer

City of Lethbridge bench mark No 15 in court house. In stone parapet at south side of steps at main entrance metal bracket attached to west face of first stone above concrete wall. Elevation 2,978 732

Court house. East face of plaster at southeast corner of rear wall, bolt set horizontally in at centre of granite plinth No 196-4. Elevation 2,978 389.

Southern side United church on Fourth Avenue. East side wall in stone foundation 11 feet 6 inches from front corner and 18 inches below plinth. Bolt set horizontally No 199-4. Elevation 2,984 163

C P R R stone trestle 1/2 mile over Oldman River west of station. West concrete abutment in 11th and 12th face 18 inches above bridge seat. Bolt set horizontally No 82-D. Elevation 3,001 319

Same trestle as bench mark No 82-D. East concrete abutment, south end of west arc 20 inches above bridge seat. Bolt set horizontally No 82-D. Elevation 3,000 618.

Double concrete culvert 3 1/2 miles east of station and at mileage 106 1 from Dunmore opposite Cibewa east road sign 8 inches east of west end of south face 8 inches below top bolt set horizontally No 196-C. Elevation 3,000 389.

Rock building 1 1/2 miles east of Cibewa on south immediately west of railway, in south concrete foundation wall 12 feet from northeast corner bolt set horizontally No 200-C. Elevation 3,002 186

This bench mark was not found during inspection of 1947

See Wilson, Kipp, and Coaldale

Lloydminster C N Ry Concrete peer 20 by 20 inches and standing 4 feet above ground reconstructed for astronomical observations 300 feet west of station and 100 feet south of track 378 feet west and 2 425 1 feet south of northeast corner of sec 26-29-1 west of the fourth meridian top of peer, at southeast corner unmarked No B 3. Elevation 2,125 289

See Kitnesy

Lone Star Iron pipe with brass cap at a wooden bridge 3 1/2 miles south of Lone Star post office 132 feet south of bridge and 27 feet east of centre line of road No 734-H. Elevation 2,100 389

Iron pipe with brass cap at a slight summit on the road 2 miles south of Lone Star post office about 150 feet north of apparent high point of summit and opposite two dilapidated shacks on west side of road 30 feet west of centre of road No 734-H. Elevation 2,133 385

Iron pipe with brass cap directly in front of Lone Star post office about 300 feet south of junction of side road to Deadwood 30 feet east of centre line of road No 734-H. Elevation 1,979 384

Subdivision Levels bench mark: Boulder near northeast corner section 30-30-23 Subdivision Levels listed elevation 1,965.54 No. 488. Geodetic elevation 1,967.235.

Iron pipe with brass cap at road allowance intersection, 1½ miles north of Lone Star post office 43 feet south and 66 feet east of northeast corner section 31-30-23 No. 737-H. Elevation 1,961.717

See Dixonville and North Star

Louiseville: C N Ry. J. W. Smith's general store 600 feet east of the station, in centre of west face of large boulder which supports northwest corner of building bolt set horizontally No. 58-7. Elevation 3,966.361

See Alix and Elsora.

Loyola: C P Ry. Concrete bench-mark pier, 1 mile east of station and 80 feet west of sixteenth pole east of mile post 93 from Kerrobert, 330 feet west of a culvert and 3 feet south of northerly limit of right of way at top of west bank of gully. Bolt set vertically. N. 2-34. Elevation 2,508.392

Concrete bench mark pier 2½ miles west of station and at mileage 90.9 from Kerrobert, 75 feet west of fifth pole west of road allowance along east boundary of sec 11 35-8 and 3 feet south of northerly limit of right of way, bolt set vertically. N. 2-33. Elevation 2,567.703

See Consort and Veteran.

Lethbridge: Concrete arch culvert under C P Ry. 1½ miles east of station and at second pier west of mile post 71 from Lethbridge 2,000 feet east of a road crossing. North face of culvert 16 inches from east end and 3 feet below top. Bolt set horizontally. N. 28-1. Elevation 3,870.050

C P Ry. steel truss bridge over Lethbridge R. sec 2½ miles west of station and at mile post 75 from Lethbridge. West face of east concrete abutment, 2 feet above bridge seat and almost in line with northerly truss. Bolt set horizontally. No. 28-1. Elevation 3,830.788

See Cowley and Burnside

Lytton: C N Ry. Steel truss bridge over C P Ry. irrigation canal 1½ miles east of station and at mileage 109.8 from Hanna in top of north concrete retaining wall at east end of bridge 15 inches from west end of wall and 19 inches from north edge. bolt set vertically. No. 8-157. Elevation 3,131.737

Concrete bench-mark pier 2½ miles east of station and 22 feet east of thirteenth pole east of mile post 109 from Hanna 700 feet west of a trellis over a creek 2,325 feet westerly from road allowance along east boundary of sec 10-25-26 and 2 feet south of northerly limit of right of way tablet in top of pier No. 8-158. Elevation 3,105.446

Concrete bench mark pier 1½ miles southwest of station and 10 feet east of thirteenth pier west of mile post 112 from Hanna 130 feet east of a concrete tee culvert 585 feet east of a private crossing 2,300 feet easterly from road allowance along east boundary of sec 1 25-27 and 2 feet south of northerly limit of right of way, tablet in top of pier N. 8-158. Elevation 3,100.397

See Norfolk and Ardenode

Lymberdale: Iron pipe with brass cap 1½ miles east of station 3 feet south of northerly limit of N A Ry right of way 45 feet east of third pole east of mile post 96 from Kerrobert and 900 feet west of road allowance along east boundary of sec 22-73-12 No. 407-H-2. Elevation 2,530.071

Iron pipe with brass cap near the centre of a long shallow cut 1½ miles northwest of station 3 feet southwest of northerly limit of N A Ry right of way and between fourth and fifth poles northwest of mile post 96 from

Rycroft, $\frac{1}{2}$ mile southeast of road allowance along east boundary of sec. 30-73-12 and in line with a fence running east from the railway. No. 408-H. Elevation 2,593-165.

See Hythe and Dennatt.

Lytton; N A Ry Concrete bench-mark pier, $2\frac{1}{2}$ miles south of south switch and 24 feet north of third pole north of mile post 272 from Carbondale, 435 feet north of a bridge over a stream and 51 feet west of track, bolt set vertically No V-74. Elevation 1,309-496.

Concrete bench-mark pier, $1\frac{1}{2}$ miles northwest of north switch and 40 feet west of fourth pole west of mile post 276 from Carbondale or of thirteenth pole west of a galvanized iron pipe culvert, 50 feet west of west end of a curve and 49 feet north of track, bolt set vertically No V-75. Elevation 1,328-010.

See Lenarthur and Draper.

Mackay; C N Ry See Leeman, B.M. No. 78-H and Niton, B.M. No. 77-H

Macleod; Court-house Front or north stone foundation wall, 20 inches from northeast corner and in third course below water table. Bolt set horizontally No. 87-D. Elevation 3,106-321.

Fundamentals, bench mark in War Memorial plot, 68 feet east of inner edge of sidewalk on Second Avenue and in line with War Memorial monument and Fort Macleod monument. Tablet in top of pier No. 811-C. Elevation 3,107-434. Subsurface tablet is 1 foot north of pier.

Fort Macleod monument, erected by National Parks Bureau, in War Memorial plot. Tablet at centre of rear or east face of concrete base, 4 inches below top. No 812-C. Elevation 3,106-807.

Public school on Twentieth Street, between Fourth and Fifth Avenues. Front or north stone foundation wall, 20 inches from northeast corner of west wing and in third course below water table. Bolt set horizontally. No. 88-D. Elevation 3,112-634.

See Mekastoe, Pearce, and Stowe.

Magnolia; C N Ry See Gainsford, B.M. No. 71-H

Majestie; C P Ry Concrete bench-mark pier, $\frac{1}{2}$ mile west of station and at mileage 39 9 from Empress, 270 feet easterly from road allowance along east boundary of sec 36-21-7 and 6 feet south of northerly limit of right of way, bolt set vertically No 355-D. Elevation 2,430-755.

See Atlee and Buffalo.

Makepeace; Concrete bench-mark pier, 3 miles northwest of station and at second pole south of mile post 16 from Bassano, 4 feet east of road allowance along east boundary of sec 24 23-20 and 210 feet south of intersection of track with east limit of road allowance, bolt set vertically No 302-D. Elevation 2,934-092.

C P Ry Alberta-Pacific Grain Company's elevator, in northwest concrete foundation wall of unloading room, 7 feet from westerly corner and 6 inches below meta. sheathing, bolt set horizontally No 303-D. Elevation 2,849-773.

This bench mark was not found during inspection of 1947.

See Haigar and Granta.

Manley; Concrete bench-mark pier, $\frac{1}{2}$ mile east of station, 3 feet north of southerly limit of N A Ry right of way and at first pole west of mile post 341 from Jambuso with C N Ry. 120 feet west of a corrugated iron pipe culvert and about 2,200 feet west of a road crossing. Tablet in top of pier. No. 373-H. Elevation 1,973-734.

Iron pipe with brass cap, $\frac{3}{4}$ miles southwest of station, 37 feet northwest of N A Ry track and midway between sixth and seventh poles southwest of mile post 344 from junction with C N Ry 400 feet southwest of a road crossing No 374-H Elevation 1,943.088.

See Wanham and Prestville

Manning: Battle River Hospital in the village of Manning Tablet in south concrete foundation wall, 8 inches from southeast corner of building and 24 inches below stucco facing No 742-H Elevation 1,505.871

Iron pipe with brass cap at road allowance intersection, $\frac{1}{2}$ miles north of village of Manning, 144 feet north and 68 feet east of northeast corner section 33-91-23 in fence line No 743-H Elevation 1,577.843.

See North Star and Notekiwin.

Mannville: C N Ry Iron pipe filled with concrete, 2,000 feet east of station and at seventh pole west of mile post 14 from Vermilion, 980 feet east of east switch of passing track and 4 feet north of southerly limit of right of way, bolt set vertically No. L-31 Elevation 2,050.408.

Iron pipe filled with concrete $\frac{3}{4}$ miles east of station and 50 feet north of fifth pole north of mile post 11 from Vermilion, 1,190 feet north of bridge at mileage 11 1 and 3 feet west of easterly limit of right of way, bolt set vertically No. L-32 Elevation 2,021.526

See Minburn and Claysmore.

Margle: N A Ry Concrete bench mark pier 2 miles north of station and 20 feet north of sixth pole south of mile post 174 from Carbondale, 1,670 feet northerly from road allowance along north boundary of sec 33-74-9 and 50 feet east of track, bolt set vertically No. V 49 Elevation 2,186.071

Concrete bench-mark pier $\frac{1}{2}$ miles south of south switch and 57 feet north of seventh pole south of mile post 172 from Carbondale, 2,140 feet northerly from road allowance along north boundary of sec 8-74-9 and 48 feet west of track, bolt set vertically No. V 48 Elevation 2,170.901

Concrete bench-mark pier, $3\frac{1}{2}$ miles south of south switch and 40 feet north of sixth pole north of mile post 168 from Carbondale 420 feet southerly from north boundary of sec 20-73-9 and 37 feet east of track, bolt set vertically No. V 47 Elevation 2,149.629

See Behan and Devenish.

Marboro: C N Ry See Galloway B.M. No. 85-H

Massive: C P Ry See Sanback B.M. No. 242 C and Mount Eisenhower B.M. No. 243-C

Mazepa: C.P Ry section house Front or north concrete foundation wall, 2 feet 6 inches from northwest corner and 4 inches below woodwork Bolt set horizontally No 61-D-2 Elevation 3,360.504

See Aldersyde and Blackie

McLennan: Iron pipe with brass cap, 3 miles northwest of station, 3 feet east of westerly limit of N A Ry right of way 5 feet south of fourteenth pole south of mile post 2 from Wagnam and 100 feet north of a farm crossing No 419-H Elevation 2,042.891

Iron pipe with brass cap $\frac{3}{4}$ miles south of station, 3 feet east of westerly limit of N A Ry right of way and at third pole south of mile post 260 from junction with C N Ry 355 feet south of a corrugated iron pipe culvert No. 341-H Elevation 2,053.291

Public school (S D No 3382), 1934 Tablet in front or west concrete foundation wall 14 feet 4 inches from northwest corner and 18 inches below stucco finish No 342-H Elevation 2,056.809.

Roman Catholic school. Tablet in concrete foundation of east side wall, 11 feet from southeast corner and between first and second basement windows from front of school. No 342-H 2 Elevation 2,044 248.

Concrete bench-mark pier 1½ miles west of station, 5 feet south of northerly limit of N A Ry right of way and at mileage 263 4 from junction with C N Ry, 200 feet east of Peace River subdivision junction switch. Tablet in top of pier. No 343-H Elevation 2,041 198.

See Kathleen, Donnelly, and Roxana.

McMurray; N A Ry See Draper, B M No V-78.

McNab; Concrete bench-mark pier 1 mile south of station, 4 feet east of westerly limit of C P Ry right of way 42 feet north of fifteenth pole south of mile post 17 from Stirling and 550 feet north of a bridge. North face of pier. Bolt set horizontally. No 208-C Elevation 3,205 558

See New Dayton and Warner

Moorma; Concrete bench-mark pier 1½ miles southeast of station. 3 feet northeast of southwest limit of N A Ry right of way, 90 feet northwest of mile post 27 from junction with C N Ry, directly opposite Government telephone pole No 1-1092 and 3,000 feet northwest of road allowance along east boundary of sec 20-36-26. Tablet in top of pier. No U-8. Elevation 3,359 525.

See Morinville and Bushy

Medicine Hat; C P Ry Fundamental bench mark in Central park. The pier is in a grass border of circular flower bed, 110 feet south of south limit of Ninth Street and 68 feet west of west limit of Third Avenue. Tablet in top of pier. No 216-C. Elevation 2,304 834.

Post office in stone foundation of southwest or Sixth Avenue wall, 3 feet 8 inches northwest of steps to central entrance and third course below brick-work bolt set horizontally. No 167-C Elevation 2,188 744

F /I Avenue United Church, tablet in top of projecting portion of concrete foundation of Fourth Street wall, 7 feet northeast of vestry doorway, 21 inches northeast of a buttress and 1 foot from main wall of building. No 815-O Elevation 2,240 903

Railway bridge over South Saskatchewan River northwest of station, 16 northwest face of southeast concrete abutment, 2 feet 8 inches from upstream end of abutment, bolt set horizontally at track level. No 168-C. Elevation 2,184 170

Roman Catholic Church, in northeast wall of northeast transept, 14 inches northwest of buttress which is nearest to front of church and 6 inches below basement window sills bolt set horizontally in concrete. No 334-D Elevation 2,178 568

See Redcliff and Dunmore.

Medicine Lodge; Concrete foundation of demolished C N Ry water tank, 1,200 feet east of station and at second pole east of mile post 26 from Edson. In face which is parallel and nearest to track, 6 inches from west end of this face and 6 inches below top. Bolt set horizontally. No 86-H Elevation 2,390 303.

See Galloway and Obed.

Melksham; C P Ry bridge over Oldman River, ½ mile southeast of station. Bolt set vertically in top of centre pier 23 inches from upstream end and midway between north and south edges. No CC-19 Elevation 3,112 498.

See Nolan and Macleod.

Manaski: Concrete box culvert under C P Ry $\frac{1}{2}$ mile north of station and at mileage 40.7 from Red Deer 580 feet south of road allowance along north boundary of sec 33-43-23. Tablet in top of west headwall, 13 inches from north end. No H-39. Elevation 2,620 141

Head of tablet and a portion of shank have been broken off, hence elevation is recoverable only approximately

See Ponoka and Hobbema.

Middlefield: C N Ry. Concrete bench-mark pier 1 $\frac{1}{2}$ miles northeast of station and 30 feet east of tenth pole east of mile post 29 from Hanna. 363 feet west of a trestle over a creek 1,105 feet easterly from road allowance along east boundary of sec 19-30-18 and 2 feet south of northerly limit of right of way tablet in top of pier No S-122. Elevation 2,782 310

See Gartly and DeHa.

Middleosphere: C P Ry steel truss bridge over Fish Creek, $\frac{1}{2}$ mile north of station. Southeast face 1 east concrete wing wall at north end of bridge, 2 feet 4 inches from end of abutment and 2 feet 9 inches above bridge seat. Bolt set horizontally. No 54-D. Elevation 3,413 008.

Flat mass of rock about 18 feet by 7 feet 1 $\frac{1}{2}$ miles south of station, 6 feet east of easterly limit of C P Ry right of way and 800 feet south of mile post 10 from Twelfth Street east. West face of rock 9 feet from south end and 3 inches above ground. Bolt set horizontally. No 55-D. Elevation 3,429 341

See Turner and DeWinton.

Milk River: Abandoned highway bridge over Milk River, west of railway, in northeast face of east concrete wing-wall on north bank of river, bolt set horizontally 8 feet 6 inches below coping. No 214-C. Elevation 3,409 685

Concrete bench-mark pier 1 mile north of station, 5 feet east of westerly limit of right of way and 9 feet north of fourteenth pole south of mile post 23 from Stirling wheel mile post is the fourth pole north of north mile sign bolt set horizontally in north side of pier. No 212-C. Elevation 3,467 129

Concrete bench-mark pier 6 miles south of station and 55 feet south of fifteenth pole south of mile post 40 from Stirling, 5 feet east of westerly limit of right of way, bolt set horizontally in north side of pier. No 213-C. Elevation 3,425 928

See Warner and Coutts.

Millet: Concrete bench-mark pier, 3 $\frac{1}{2}$ miles south of station 3 feet east of westerly limit of C P Ry right of way and at mileage 63 3 from Red Deer, 100 feet north of road allowance along north boundary of sec 9-47-24. Bolt set vertically. No 682-C. Elevation 2,488 162

C P Ry plate girder bridge over Pipestone Creek, 1 mile south of station and at mileage 65.7 from Red Deer. South concrete abutment, tablet in top of ballast wall, 2 feet east of east rail. No H-44. Elevation 2,448 390

Concrete bench-mark pier, 2 $\frac{1}{2}$ miles south of station, 3 feet west of easterly limit of C P Ry right of way, 40 feet north of fourth pole north of mile post 68 from Red Deer and 100 feet northerly from road allowance along east boundary of sec 7-48-24. Bolt set vertically. No 683-C. Elevation 2,479 663.

See Wetaskiwin and Kavannah.

Millecreek: C P Ry. Concrete bench-mark pier, 18 feet west of east mile sign and at seventeenth pole west of mile post 85 from Empress, 220 feet west of a whistle post for eastbound trains and 8 feet south of northerly limit of right of way, bolt set vertically. No 342-D. Elevation 2,383 247

See Duchess and Patricia.

Minburn; C.N Ry. Iron pipe filled with concrete, 1,850 feet northwest of station and 35 feet east of seventh pole west of mile post 23 from Vermilion, 630 feet west of west switch of passing track 315 feet westerly from road allowance along east boundary of sec 15-50-10 and 3 feet north of southerly limit of right of way, bolt set vertically No. L-29 Elevation 2,060 235.

Iron pipe filled with concrete 4½ miles east of station and 30 feet west of eleventh pole east of mile post 19 from Vermilion, 530 feet easterly from road allowance along east boundary of sec 20-50-9 and 3 feet north of southerly limit of right of way, bolt set vertically No. L-30. Elevation 2,068 345

See Innisfree and Manerville.

Mirror; C.N Ry. Water tank, in east face of concrete foundation wall, 10 inches below woodwork and 2 feet to the right of the spout, bolt set horizontally No. 63-F Elevation 2,602 575

See Bashaw and A.x

Monarchs; Concrete foundation of demolished building formerly occupied by Canadian Bank of Commerce, 800 feet south of C.P Ry and at east side of street to station. West face of foundation wall, 4 feet 2 inches from southwest corner and 10 inches below top Bolt set horizontally No. 84-D Elevation 3,102-059

C.P Ry steel trestle viaduct over Oldman River, 4 miles west of station West face of south concrete retaining wall at east end of viaduct, 21 inches above bridge seat Bolt set horizontally No. 85-D Elevation 3,074 873

See Kipp and Pearce.

Monks; C.P Ry. Water tank, ½ mile east of station, in north face of concrete foundation wall, 3 feet 6 inches to the right of the spout and 3 inches below woodwork, bolt set horizontally No. Z-38. Elevation 2,208 768.

Concrete bench mark pier 4½ miles west of station and at mileage 79 5 from Kerrobert, 10 feet east of third pole west of subway carrying road allowance along east boundary of sec 8-35-5 and 3 feet north of southerly limit of right of way, bolt set vertically No. Z-37 Elevation 2,298-062

See Penman and Consort.

Morinville; Concrete bench-mark pier, 2½ miles northwest of station, 3 feet northeast of southwest limit of N.A.Ry right of way, 17 feet southeast of tenth pole southeast of mile post 23 from junction with C.N Ry 1,500 feet northwest of road allowance along east boundary of sec 0-56-25 and 75 feet northwest of a private crossing. Tablet in top of pier N. U-7 Elevation 2,334 028.

See Carbondale and Mearns

Morley; Concrete box culvert under C.P Ry, 2 miles east of station and at mileage 39 7 from Calgary. East face of north headwall, 7 inches below top. Bolt set horizontally No. 226-C Elevation 4,062 967

Concrete bench mark pier 1½ miles west of station 5 feet south of northerly limit of C.P Ry right of way 100 feet west of mile post 43 from Calgary and 135 feet west of station mile sign. North face of pier Bolt set horizontally No. 227-C. Elevation 4,076 455.

See Radnor and Seebe

Morningside; C.P Ry. Section house, in east concrete foundation wall, 1 foot from northeast corner and 1 foot below woodwork, bolt set horizontally. No H-36. Elevation 2,811-866

Concrete bench-mark pier, 4 miles southwest of station and 55 feet south of twenty-fourth pole north of mile post 23 from Red Deer, 296 miles-6½

feet south of Lochnivar north mile sign, 3,000 feet southerly from road allowance along north boundary of sec 9-41-26 and 3 feet west of easterly limit of right of way, bolt set vertically No H-38A Elevation 2,772.041

See Lacombe and Ponoka.

Mount Eisenhower; C P Ry bridge over Johnston creek, 2½ miles southeast of station and at mileage 96.3 from Calgary. South face of south concrete wing wall at northwest end of bridge, 19 inches from end face of ballast wall and 17 inches above bridge seat. Bolt set horizontally No 243-C. Elevation 4,649.466.

Banff-Windermere highway bridge over Bow River, 1 mile west of C P Ry station. North concrete abutment, east end of south face, 2 feet 2 inches below bridge seat. Bolt set horizontally No 244-C Elevation 4,687.997

See Sawback and Eldon.

Mundare; C N Ry Iron pipe filled with concrete, 1,880 feet east of station, 765 feet east of east switch of passing track and 4 feet south of northerly limit of right of way, bolt set vertically No L-17 Elevation 2,239.299.

Iron pipe filled with concrete 3½ miles southeast of station and 70 feet west of sixteenth pole west 1 mile post 67 from Vermilion, 1,515 feet east of a private crossing and 4 feet north of southerly limit of right of way, bolt set vertically No L-18 Elevation 2,212.904.

Iron pipe filled with concrete, 2 miles northwest of station and 27 feet west of first pole east of mile post 74 from Vermilion 3 feet north of southerly limit of right of way bolt set vertically No L-16 Elevation 2,257.737

See Hilliard and Royal Park

Munson; Concrete beach-mark pier, 2½ miles northeast of station and 14 feet west of tenth pole east of mile post 39 from Hanna, 292 feet easterly from road allowance along east boundary of sec 23-30-20 and 2 feet south of northerly limit of right of way tablet in top of pier No S-125 Elevation 2,630.147

Concrete beach-mark pier 1½ miles southwest of station and 66 feet east of tenth pole east of mile post 43 from Hanna 403 feet west of a private crossing, ½ mile easterly from east boundary of sec 9-30-20 and 2 feet south of northerly limit of right of way, tablet in top of pier No S-128 Elevation 2,613.552.

See Drumbeader and Gartly

Munson Junction; C N Ry See Munson, B M No. S-125.

Nampa; Iron pipe with brass cap, 2½ miles southeast of station, 3 feet northeast of southwest limit of N A Ry right of way 80 feet northwesterly of mile post 28 from Winagami and 250 feet southeast of road allowance along east boundary of sec 17-81-20. No 429-H Elevation 1,895.627

N A Ry water tank about 2,000 feet southeast of station. Tablet in top of southerly concrete fonting; i.e., the one which is nearest the track and farthest from station No 429-H Elevation 1,879.137

Iron pipe with brass cap, 2½ miles northwest of station, 3 feet northeast of southwest limit of N A Ry right of way 44 feet northwest of fifteenth pole southeast of mile post 33 from Winagami 120 feet southeast of a trestle and 745 feet northwest of road a manner along east boundary of sec 27-81-21 No 420-H Elevation 1,883.414

Iron pipe with brass cap, ½ miles north west of station 3 feet southwest of northeast limit of N A Ry right of way, 42 feet southeast of first pole

northwest of mile post 35 from Winagam; and 200 feet northwest of road allowance along east boundary of sec 5-82-21 No 431-H Elevation 1,883 867

See Rose and Judah

Manston; C.P Ry plate girder bridge over Mosquito creek, 2 miles northwest of station and at mileage 53 9 from Twelfth Street east. South concrete abutment, bolt set vertically in top of ballast wall, 9 inches from west end and 6 inches from south edge. No. CC-6 Elevation 3,355 960.

Red brick business block at westerly corner of Shaw Street and Railway Avenue. In stone foundation of north east or Railway Avenue wall, 3 feet 3 inches southeast of doorway at rear and 1 foot below brickwork. Bolt set horizontally. No. CC-6 Elevation 3,368 960.

Concrete arch culvert under C.P Ry, 4 miles southeast of station, 3,000 feet north of Durward north switch and between fourth and fifth poles south of mile post 60 from Twelfth Street east. Bolt set vertically in top of west headwall, 7 inches from south end. No. CC-7 Elevation 3,348 876.

See Cayley and Parkland

Marwayne; Concrete bench mark pier 1 mile north of station, 3 feet east of westerly limit of C.P Ry right of way, 42 feet south of fifteenth pole north of mile post 52 from Red Deer and 1,600 feet north of road allowance along north boundary of sec 22-45-24. Bolt set vertically. No. H-41 Elevation 2,806 518.

See Hobema and Wetaskiwin

Meda; C.P Ry See Erakine, B.M. No. Z-9, and Alex, B.M. No. Z-7

Newbrook; N.A.Ry Concrete bench-mark pier 1 mile south of station and 81 feet south of second pole north of mile post 52 from Carbondale, 2,500 feet north of crossing of Waskatenau creek and 3 feet west of easterly limit of right of way, tablet in top of pier. No. V-14 Elevation 2,190 109

See Abee and Alpen

New Dayton; Concrete bench-mark pier 2 miles northwest of station, 4 feet northeast of southwest limit of C.P Ry right of way and 63 feet southeast of twelfth pole southeast of mile post 7 from Stirling. Northwest face of pier. Bolt set horizontally. No. 205-C. Elevation 3,187 459

Building owned by Dr O. M. Catey, formerly office of Canadian Bank of Commerce and now used as a residence, at northwest side of the main street about 400 feet southwest of C.P Ry. Northeast side wall, in concrete foundation, 2 feet 4 inches from front corner and 14 inches below woodwork. Bolt set horizontally. No. 206-C. Elevation 3,196 102.

Public school. Front or east concrete foundation wall, 27 feet 3 inches from northeast corner 4 feet north of north wall of vestibule at entrance and 20 inches below stucco finish. Bolt set horizontally. No. 207-C. Elevation 3,210 398.

See Stirling and McNab.

New Fish Creek; Iron pipe with brass cap 2 miles west of bridge over Little Smoky River, midway between telephone poles 3-2832 and 3-2833 which are the sixteenth and seventeenth poles respectively south of a curve to the right when traveling toward High Prairie. 36 feet southeast of centre line of road and 12 feet southeast of line of poles. No. 614-H Elevation 1,939-180

Iron pipe with brass cap 4½ miles southwest of bridge over Little Smoky River and 5½ miles east of junction of side road to New Fish Creek post office, 9 feet east of telephone pole No. 3-2915 and 33 feet east of centre line of road. No. 615-H. Elevation 1,987.015

Iron pipe with brass cap 2½ miles northeast of junction of side road to New Fish Creek post office 6 feet southeast of telephone pole No. 4-41. 43 feet northeast of a box culvert 30 feet southeast of centre line of road No. 616-H. Elevation 2,044.911

Iron pipe with brass cap 6 feet southeast of telephone pole No. 4-122 which is the seventh pole northeast of junction of road to New Fish Creek post office 27 feet southeast of centre line of road. No. 617-H. Elevation 2,069.524

Iron pipe with brass cap 2½ miles southwest of junction of road to New Fish Creek post office 57 feet south of telephone pole No. 4-216 which is the ninth pole north of a wooden bridge 33 feet east of centre line of road and 6 feet east of line of poles. No. 618-H. Elevation 2,077.692

Iron pipe with brass cap 4½ miles southwest of junction of road to New Fish Creek post office 45 feet northeast of telephone pole No. 4-301 or fourth pole southwest of earth cut or two 11th pole northeast of a small timber bridge 45 feet southeast of centre line of road and 11 feet southeast of line of poles. No. 619-H. Elevation 2,116.387

Iron pipe with brass cap 2½ miles southwest of junction of road to New Fish Creek post office 60 feet between the 4th and third telephone poles southwest of a location east and earth cut such poles bearing numbers 4-384 and 4-385 respectively 39 feet southeast of centre line of road and 6 feet southeast of line of poles. No. 620-H. Elevation 2,162.542

See Triangle and Valleyview

New Norways: CN Ry. Pioneer Grain Company's elevator in south concrete foundation wall 2 feet from southwest corner and 4 inches below metal sheathing bolt set horizontally. No. 68-H. Elevation 2,456.967

Farm, one mile by E. M. Parkland, 100 northeast 1 acre 25.44-21, about 2½ miles south of station and 300 feet east of railway tablet in north concrete foundation wall 16 inches from northwest corner and 5 inches below wooden tie. No. 67-H-2. Elevation 2,496.879

See Duhamel and Ferntree

Nightingale: C P Ry. Alberta Pacific Grain Company's elevator, in northwest concrete foundation wall 2 feet 10 inches northeast of driveway at southwest end of elevator 6 inches below metal sheathing bolt set horizontally. No. 293-D. Elevation 2,949.850

See Gayford and Tudor

Nihm: C P Ry. Plate girder bridge over Blackwood creek 3 miles north of station and at mileage 87.2 from Red Deer, tablet in bridge seat of south concrete abutment 6 inches from east edge and 8 inches from north edge No. H-47. Elevation 2,368.958.

See Leduc and Ellerslie

Nilson: Concrete bench mark pier, 2 miles east of station, 80 feet north of C N Ry track 4 feet east of tenth pole east of mile post 98 from Edmonton and 1,000 feet west of a wooden box culvert. North face of pier. Bolt set horizontally. No. 77-H. Elevation 2,701.493

See Leaman and Carrot Creek

Wobbliford: Concrete bench-mark pier, 1½ miles north of station, 7 feet east of westerly limit of C.P.Ry right of way and between 8th and ninth poles

south of mile post 14 from Coalhurst, 180 feet north of a private crossing and about 1700 feet north of road allowance along north boundary of sec 10-11-23. North face of pier. Bolt set horizontally. No 78-D. Elevation 3,200 145.

C P Ry section house, 600 feet north of station. Frost or east concrete foundation wall 11 feet from northeast corner and 7 inches below woodwork. Bolt set horizontally. No 79-D. Elevation 3,221 361.

See Barons and Kipp.

Nelam: C P Ry plate girder bridge over Willow creek, 1½ miles north of station and at mileage 98 1 from Twelfth Street east. North concrete abutment, bolt set vertically in bridge seat, 10 inches from east edge and 19 inches from south edge. No OC 17. Elevation 3,162 180.

Concrete box culvert under C P Ry, 50 feet south of south switch and at sixth pole north of mile post 100 from Twelfth Street east, 880 feet north of road allowance along north boundary of sec 19-9-26. Bolt set vertically in top of east headwall, 10 inches from south end. No OC 18. Elevation 3,182 244.

See Woodhouse and McKastor.

Noral: N A Ry. Concrete bench-mark pier, 2 miles northeast of station and 17 feet west of first pole east of mile post 95 from Carbundale about 800 feet west of a curve and 39 feet north of track, tablet in top of pier. No V-26. Elevation 1,979 807.

Concrete bench-mark pier, 1 mile west of station and 62 feet west of fifth pole east of mile post 92 from Carbundale, at the east end of a fill about 900 feet in length and 39 feet north of track, tablet in top of pier. No V-25. Elevation 1,994 705.

See Caslin and Hylo.

Norfolk: C N Ry. Concrete box culvert, ½ mile northeast of east switch and at mileage 117 7 from Hanna in centre of top of coping on north end of culvert, bolt set vertically. No S-163. Elevation 3,315 944.

Plate girder bridge over C P Ry irrigation canal ½ mile northeast of east switch and at mileage 117 4 from Hanna, bolt set vertically in centre of top of north concrete retaining wall at east end of bridge, 14 inches from east end of wall. No S-162. Elevation 3,312 990.

Concrete bench-mark pier 2 miles northeast of east switch and 6 feet east of seventh pole west of mile post 116 from Hanna 2 feet south of northerly limit of right of way, bolt set vertically. No S-160. Elevation 3,285 114.

This bench mark was not found, during the inspection of 1947.

Concrete box culvert, 1½ miles southwest of west switch and at mileage 119 7 from Hanna, bolt set vertically in top of coping on north end of culvert 1 foot from east end of same. No S-165. Elevation 3,335 991.

Concrete bench-mark pier 1½ miles southwest of west switch and 18 feet east of ninth pole west of mile post 120 from Hanna, 630 feet easterly from road allowance along east boundary of sec 7-24-27 and 2 feet north of southerly limit of right of way, tablet in top of pier. No S-166. Elevation 3,337 822.

See Chestermere Lake and Lylata.

North Edmonton: C N Ry. Home semaphore beside main line track, ½ mile east of station and 850 feet east of diamond crossing of Viking and Vegreville subdivisions of C N Ry. tablet in top of concrete footing, at southwest corner of same. No 57-H-2. Elevation 3,157 442.

See Clover Bar and Edmonton.

North Star; Iron pipe with brass cap at road allowance intersection, 4 miles south of village of North Star, under real fence, 93 feet north and 66 feet east of northeast corner section 8-90-23. No. 738-H Elevation 1,696 710

Iron pipe with brass cap at road allowance intersection, 2 miles south of village of North Star, 115 feet north and 66 feet east of northeast corner section 20-90-23. No. 739-H Elevation 1,624 958

House owned by Jas. Robson, opposite Provincial Treasury Office in the village of North Star. Tablet in east or side concrete foundation wall, 9 feet from southeast corner of building. No. 740-H Elevation 1,599 071

Iron pipe with brass cap at road allowance intersection 2½ miles north of village of North Star in corner of field owned by R. A. McCracken, 66 feet east of northeast corner section 9-91-23. No. 741 H Elevation 1,591 939.

See Lone Star and Manning.

Notekiwinn; Presbytery of Roman Catholic Church at Notekiwinn. Tablet in south concrete foundation wall, 3 feet from southwest corner of building and 6 inches below woodwork. No. 744 H Elevation 1,588 092.

Iron pipe with brass cap at road allowance intersection, 1½ miles north of village of Notekiwinn, in angle of fence, 66 feet north of northeast corner section 21-92-23. No. 745-H Elevation 1,604 694

24th Base Line bench mark. Top of corner post at northeast corner section 33-92-23. No. 228A. Base line listed elevation 1,614 84. Geodetic elevation 1,613 005.

Farmhouse owned by Anthony Boos on northwest quarter section 35-92-23 and about 5 miles north of village of Notekiwinn. Tablet in north concrete foundation wall midway between two windows and 12 inches below woodwork. No. 746-H Elevation 1,582 312

24th Base Line bench mark. Top of corner post at northeast corner section 36-92-23. No. 225. Base line listed elevation 1,552 08. Geodetic elevation 1,550 406

See Manning and Hotchkiss.

Obed; Concrete bench-mark pier 1½ miles east of station, 80 feet south of C.N.Ry. track and 56 feet west of mile post 34 from Edson, on top of a gently sloping bank about 300 feet east of a curve. North face of pier bolt set horizontally. No. 87 H Elevation 2,558 481

See Medicine Lodge and Fedley

Okotoks; Plate girder bridge on C.P.Ry., 1½ miles northwest of station and at mileage 24.5 from Twelfth Street east. West concrete abutment, south end of east face 2 feet above bridge seat. Bolt set horizontally. No. 89-D. Elevation 3,486 695

C.P.Ry. bridge over Sheep River, 1 mile southeast of station and at mileage 27.3 from Twelfth Street east. Southwest face of west concrete wing wall at north end of bridge, directly in line with westerly truss and 2 feet 8 inches above bridge seat. Bolt set horizontally. No. 89-D Elevation 3,429 382

See Sandstone and Aldersyde.

Olds; C.P.Ry. Post office sandstone facing of front wall, 16 feet 4 inches south of main entrance and 9 inches above sidewalk, bolt set horizontally in projection, facing south. No. H-20. Elevation 3,412 388

See Dedbury and Bowden.

Oliver; C N Ry Iron pipe filled with concrete, 2,070 feet southwest of station and 42 feet west of fourth pole west of mile post 123 from Vermilion, 815 feet west of west switch of passing-track and 3 feet south of northerly limit of right of way bolt set vertically No L 2 Elevation 2,139 688.

See Edmonton and Fort Saskatchewan.

Opalt; X A Ry Water tank 3 miles northeast of station and at mileage 26 3 from Carbondale, in southeast face of concrete foundation, 4 feet 4 inches from corner nearest track and 10 inches below woodwork, bolt set horizontally No V-7 Elevation 2,001 560

Elevation is only approximate as bolt is loose.

See Fedorab and Egremont

Overlea; Concrete bench-mark pier 1½ miles east of east switch, 45 feet north of N A Ry track, 55 feet east of ninth pole east of mile post 149 from junction with C N Ry and 45 feet west of Government telephone pole No 2-2276 Bolt set vertically No U-42 Elevation 1,981 773

Concrete bench-mark pier 1 mile west of west switch 48 feet north of N A Ry track, 65 feet west of ninth pole east of mile post 152 from junction with C N Ry and 30 feet east of Government telephone pole No 2-2379 Bolt set vertically No U 43 Elevation 1,940 900.

See Saalbeck and Slave Lake

Owlseye; Concrete bench-mark pier, ½ mile northwest of station, 3 feet southwest of northeast end of C N Ry right of way 60 feet southeast of third pole northwest of mile post 112 from St. Paul Junction and 1,730 feet southeast of road allowance along north boundary of sec 4-58-10 Bolt set vertically No DD-24 Elevation 2,165 020.

Concrete bench mark pier 3½ m. east-southeast of station, 3 feet southwest of northeast limit of C N Ry right of way 16 feet southeast of second pole southeast of mile post 116 from St. Paul Junction and 1,270 feet southeast of road allowance along north boundary of sec 23-58-10 Bolt set vertically No DD-23 Elevation 2,182 670.

See Athlene and St. Paul.

Oyen; C N Ry Alberta hotel at southeast corner of the main street and first street south of railway in north concrete foundation wall, 2 feet from northeast corner of main building and 3 inches below woodwork, bolt set horizontally No S-86 Elevation 2,519 482

Concrete bench-mark pier 1½ miles east of station and 18 feet east of eighteenth pole east of mile post 68 from Kindersley, 53 feet east of east mile sign 1,570 feet westerly from road a lowance along east boundary of sec 35-27-4 and 2 feet south of northerly limit of right of way, tablet in top of pier No S-85 Elevation 2,485 900

Concrete bench mark pier 2½ miles northwest of station and 7 feet east of twelfth pole west of mile post 69 from Kindersley, 517 feet easterly from road allowance along east boundary of sec 8-28-4 and 2 feet south of northerly limit of right of way, tablet in top of pier No S-87 Elevation 2,556 748.

See Excel and Beaton.

Parkland; Concrete arch culvert under C P Ry 24 miles northwest of station and at fifth pole north of mile post 62 from Twelfth Street east 240 feet south of road a lowance along north boundary of sec 19-15-27 Bolt set vertically in top of east headwall 7 inches from south end No CC-8 Elevation 3,402 220.

Concrete box culvert under C P Ry 2½ miles south of station and at mile post 67 from Twelfth Street east. Bolt set vertically in top of east headwall 6 inches from south end No C-9 Elevation 3,432.881

See Nanton and Stavely

Frankley: C P Ry Double concrete culvert, 1 mile east of station and at mileage 131.6 from Swift Current in south face of culvert, 8 inches below top immediately above west wing-wall, bolt set horizontally No 163-C Elevation 2,625.721.

See Irvine and Dunmore

Patricia: C P Ry Alberta Pacific Grain Company's elevator in east concrete foundation wall, 9 feet 6 inches from northeast corner and 8 inches below metal sheathing bolt set horizontally No 343-D Elevation 2,403.775

See Millicent and Deniart.

Peace River: N A Ry Iron pipe with brass cap, 3½ miles south of station 47 feet east of N A Ry track and at fourth pole north of mile post 45 from Wengami No 425-H Elevation 1,480.923

Bridge over Harmon River ½ mile southeast of station. Tablet in top of west concrete retaining wall at north end of bridge, 18 inches from south end of wall and 18 inches from west edge No 436-H Elevation 1,175.183.

High school. Tablet in south concrete foundation wall, beneath fourth window from southeast corner and 8 inches below woodwork No 437-H Elevation 1,093.629.

Post office. Tablet in stone foundation of north side wall, 6 inches above platform at letter drop No 437-H 2 Elevation 1,062.275.

Iron pipe with brass cap, on property of United Church, at west limit of First Street north, 63 feet north of north limit of Broadway No T-22 Elevation 1,066.689

Combined railway and highway bridge over Peace River. Tablet in top of north concrete retaining wall at east end of bridge 7 inches from west end of wall and 7 inches from north edge No 438-H Elevation 1,097.163

Same bridge as bench mark No 438-H. Tablet in south face of west concrete abutment, 3 feet from east face and 1 foot below top No 438-H Elevation 1,098.485.

Sandstone cliff near road to Shaftesbury Settlement, about 1½ miles southwest of Peace River bridge, on side road past Unger's house. Bolt set horizontally in face of cliff about 100 feet from house and 2 feet above ground. No T-22. Elevation 1,039.724.

Iron pipe with brass cap 2½ miles (by railway line) west of station, 22 feet east i.e. toward river bank from N A Ry track and at mileage 51.2 from Wengami (48 feet north of eighth pole south of mile post 51), 200 feet south (toward Hare Creek) from a corrugated iron pipe culvert. No 440-H Elevation 1,295.174.

See Judah and Roma.

Peace: Concrete bench mark pier 3½ miles southwest of station. 8 feet southeast of northwest limit of C P Ry right of way, 20 feet southwest of second pole southwest of mile post 26 from Lethbridge and 400 feet northeast of road allowance along north boundary of section 27-9-25 Northwest face of pier Bolt set horizontally No 86-D Elevation 3,091.518.

See Monarch and Macleod

Fullley: C.N.Ry Concrete bench-mark pier, ½ mile southwest of station, 38 feet northwest of southeast limit of right of way, 625 feet southwest of mile

post 48 from Edson and about 100 yards southwest of the edge of a deep ravine Northwest face of pier Bolt set horizontally No. H-11. Elevation 3,487-151.

See Obed and Hinton.

Peers; C N Ry See Carrot creek, B.M. No. 78-H

Pelican; C P Ry Large concrete box culvert, 1 mile northeast of station and at mileage 40 4 from Lethbridge East face of west abutment wall, 22 inches south of headwall and 2 feet 8 inches below top of water passage Bolt set horizontally No. 90-D Elevation 3,290-891

Double concrete box culvert, 100 feet southwest of southwest switch and at mileage 41-7 from Lethbridge. Southwest face of coping of northwest headwall, 8 inches below top Bolt set horizontally No. 91-D Elevation 3,319-943.

See Stowe and Brocket.

Pemukhan; C P Ry Concrete bench-mark pier, 1½ miles south of station and 35 feet north of eleventh pole north of mile post 86 from Kerrobert, 18 feet south of a whistle post, 1,050 feet south of a private crossing and 3 feet west of easterly limit of right of way, bolt set vertically No. Z-40 Elevation 2,358-336

Concrete bench-mark pier, 2½ miles northwest of station and at mileage 20 4 from Kerrobert, 3 feet north of southerly limit of right of way and 21 feet easterly from road allowance along north boundary of sec. 11-36-4, this being the second crossing of this road northwest of station bolt set vertically No. Z-39 Elevation 2,185-813.

See Kremensuer and Meuster

Penhold, C P Ry Broken southwest corner of concrete foundation of demolished section house, about 300 feet north of station and underneath driveway at north side of Alberta Pool elevator. West face of piece of foundation, 2 feet 10 inches from southwest corner, 7 inches below top and 11 feet 6 inches north of north wall of elevator Bolt set horizontally No. H-26 Elevation 2,884-186

Plate girder bridge over Waskasoo creek, 4½ miles north of station and at mileage 88 1 from Twelfth Street east. Tablet in bridge seat of north concrete abutment, 6 inches from west edge and 6 inches from south edge No. H-27 Elevation 2,923-910.

See Innisfail and Red Deer

Phillips; C N Ry Demolished water tank, in southwest face of concrete foundation wall, 6 inches from northwest end and 3 inches below top, bolt set horizontally No. 42-H Elevation 2,297-240.

See Kinsella and Viking

Philomens; N A Ry Concrete bench-mark pier, 1½ miles northeast of section house and 7 feet north of second pole south of mile post 152 from Carbondale, 5 feet north of north mile sign, 1,420 feet south of a bridge and 47 feet west of track, bolt set vertically No. V-42 Elevation 2,031-794

Concrete bench-mark pier, 5½ miles northeast of section house and 21 feet south of mile post 156 from Carbondale, on top of a ridge which crosses the track at an acute angle, 44 feet west of track, bolt set vertically No. V-43. Elevation 2,125-898.

Concrete bench-mark pier, 2½ miles southwest of section house and 36 feet north of mile post 148 from Carbondale, at the south end of a long tangent and 45 feet east of track, bolt set vertically No. V-41 Elevation 1,973-991

Concrete bench-mark pier, 5 miles southwest of section house and 42 feet south of sixth pole south of mile post 146 from Carbondale, directly behind a small borrow pit and 48 feet west of track, tablet in top of pier No. V-40. Elevation 1,931.748.

See Pitlochrine and Behan.

Fibroch: N A Ry Concrete bench-mark pier, 1½ miles south of station, 3 feet west of easterly limit of right of way 40 feet north of mile post 88 from junction with C N Ry 42 feet north of a private crossing and ½ mile south of road allowance along north boundary of sec 32-60-26. Tablet in top of pier. No. U-16. Elevation 2,061.707

Concrete bench-mark pier 2½ miles north of station, 3 feet west of easterly limit of right of way 87 feet north of first pole north of mile post 62 from junction with C N Ry 70 feet north of Government telephone pole No. 1-2289 and 1,600 feet south of north boundary of sec 19-61-26. Tablet in top of pier. No. U-17. Elevation 2,037.843

See Westlock and Jarvis.

Pickardville: N A Ry Concrete bench-mark pier 2½ miles north of station 3 feet west of easterly limit of right of way, 90 feet north of fourth pole north of mile post 48 from junction with C N Ry, 3 feet north of Government telephone pole No. 1-1746 and 530 feet north of a private crossing. Tablet in top of pier. No. U-18. Elevation 2,231.901

See Bushy and Westlock.

Pinehur: C P Ry Section house immediately east of station. East end wall, in stone foundation, 20 inches from northeast corner and 11 inches below sheathing. Bolt set horizontally. No. 94-D. Elevation 3,766.301

See Brocket and Cowley.

Plugle: N A Ry Concrete bench-mark pier, 1½ miles north of north switch and 33 feet south of eighth pole north of mile post 220 from Carbondale, 400 feet southerly from north boundary of sec 17-80-6 and 53 feet east of track, bolt set vertically. No. V-60. Elevation 1,756.452

Demolished water tank, 3 miles north of north switch and on south bank of Kettle River is southerly concrete footing of the two which are parallel and nearest to track, bolt set vertically near northwest corner. No. V-61. Elevation 1,657.357

When inspected in 1947 it was found that part of this footing had been broken away and the bolt had disappeared, the elevation is, however, recoverable approximately.

Concrete bench-mark pier, 6½ miles north of north switch and 30 feet south of mile post 225 from Carbondale 1,650 feet northerly from north boundary of sec 5-61-6 and 57 feet west of track, bolt set vertically. No. V-62. Elevation 1,872.373

See Chard and Quigley

Pitlochrine: N A Ry Concrete bench-mark pier, 2½ miles north of north switch and 6 feet north of tenth pole south of mile post 142 from Carbondale, 2,140 feet northerly from road allowance along north boundary of sec 12-70-12 and 45 feet west of track, tablet in top of pier. No. V-39. Elevation 1,977.698

See Tweedie and Philomena

Poe: C N Ry See Holden, B M No 46-H and Ryley, B M No 47-H

Ponoka: C P Ry Small plate girder bridge, 2 miles south of station and at mileage 32.8 from Red Deer. Tablet in top of bar. set wall on north concrete abutment, 4 inches from east end. No. H-37. Elevation 2,649.003.

Canadian Bank of Commerce Front or east stone foundation wall, 9 inches from southeast corner 3 feet 7 inches below brickwork and 5 inches above sidewalk. Bolt set horizontally. No H 38. Elevation 2,649 703.

Canadian Bank of Commerce Front or east stone foundation wall, 15 inches south of entrance and 3½ inches above sidewalk. Bolt set horizontally. No H-38-A. Elevation 2,649 630

Brick business clock occupied by Jack's Men's Wear, at west side of Railway street immediately south of C P Ry station. East concrete foundation is at 1 3 feet 6 inches south of entrance and 2 feet 7 inches below brickwork. Bolt set horizontally. No H 38-B. Elevation 2,649 220.

Concrete bench-mark pier 3½ miles north of station, 3 feet east of westerly limit of C P Ry right of way and 30 feet north of fourth pole north of mile post 38 from Red Deer. Bolt set vertically. No H-38-C. Elevation 2,642 981

See Morningside and Menairk

Prestville; N A Ry Iron pipe with brass cap, near the west end of a shallow cut, ½ mile west of station, 3 feet north of southerly limit of right of way and at eighth pole west of mile post 348 from junction with C N Ry, about 150 feet east of a private crossing and of a whistle post for westbound trains. No 375-H. Elevation 1,974 291

See Manir and Ryecroft

Princess; C P Ry See Denhart. B M. No 345-D

Purple Springs; C P Ry Concrete bench-mark pier, 1 mile east of station and 87 feet east of mile post 64 from Dunnire. 330 feet easterly from road allowance along east boundary of sec 18-10-14 and 4 feet north of southerly limit of right of way, bolt set horizontally in north side of pier. No. 184-C. Elevation 2,619 039

See Grassy Lake and Taber

Quigley; N A Ry Concrete bench-mark pier, 3 miles northeast of north switch and 35 feet south of sixth pole south of mile post 236 from Carbondale, 2,000 feet north of a bridge over a creek about midway between north and south boundaries of sec 34-82-6 and 47 feet east of track, bolt set vertically. No V 65. Elevation 1,810 524

Concrete bench-mark pier 4½ miles south of south switch and 6 feet north of third pole north of mile post 228 from Carbondale, 1,620 feet northerly from road allowance along north boundary of sec 19-81-6 and 47 feet east of track, bolt set vertically. No V 63. Elevation 1,657 894.

Concrete bench-mark pier, ½ mile south of south switch and 40 feet south of sixth pole south of mile post 232 from Carbondale, 635 feet southerly from road allowance along north boundary of sec 9-82-6 and 48 feet east of track, bolt set vertically. No V-64. Elevation 1,690 822

See Pingle and Warper

Radnor; C P Ry Concrete bench-mark pier, 1½ miles east of station, 7 feet south of northerly limit of right of way and between tenth and eleventh poles west of mile post 32 from Calgary. North face of pier. Bolt set horizontally. No 325-C. Elevation 3,838 033.

See Cochrane and Morley

Radway; C N Ry Concrete bench-mark pier, 1 mile west of station, 3 feet south of northerly limit of right of way, 45 feet west of second pole east of mile post 42 from St. Paul Junction and 1,716 feet east of road allowance along east boundary of sec 25-58-21. Bolt set vertically. No DD-3. Elevation 2,080-116.

See Kerenky and Waskanseanu.

Banff; C N Ry. Iron pipe filled with concrete $\frac{1}{2}$ miles east of station and 85 feet west of mile post 38 from Vermilion 60 feet east of the east end of a tangent, about 40 feet west of east end of a shallow cut 18 feet west of a private road crossing and 3 feet south of northerly limit of right of way, bolt set vertically. No L-26. Elevation 2,191.421

Iron pipe filled with concrete, 1,485 feet northwest of west switch of passing track, 188 feet east of a road crossing and 3 feet north of southerly limit of right of way bolt set vertically. No L-25. Elevation 2,163.076

See Lavaoy and Innisfree.

Bedeliff; C P Ry. Station in southwest concrete foundation wall, 3 feet northwest of porch at rear entrance and 7 inches below woodwork, bolt set horizontally. No 331-D. Elevation 2,442.928

Municipal water tank in most northerly concrete louting, 6 inches from north edge bolt set vertically. No 332-D. Elevation 2,492.448

Concrete bench-mark pier, $\frac{1}{2}$ miles southeast of stat. a and at mileage 3.2 from Medicine Hat 12 feet westerly from road allowance along east boundary of sec 3 13-6 and 4 feet south of northerly limit of right of way, bolt set vertically. No 333-D. Elevation 2,340.632.

See Bowell and Medicine Hat.

Red Deer; C P Ry. Post office. West side wall, in stone foundation, 14 inches from front corner and 20 inches below brickwork. Bolt set horizontally. No H-28. Elevation 2,819.317

Fundamental bench mark in front of city hall, 20 feet south of south curb of Ross Street and 228 feet west of west curb of Second Avenue east. Tablet in top of pier. No 809-C. Elevation 2,817.452. Sub-surface tablet is 1 foot north of pier.

Bridge over Red Deer River, $\frac{1}{2}$ mile north of station. Tablet in top of most southerly concrete pier, 10 inches from pointed downstream end. No H-29. Elevation 2,806.099

See Penhold and Blackfalds.

Redland; C N Ry. Concrete bench-mark pier, $\frac{1}{2}$ miles southwest of station and at eighteenth pole west of mile post 81 from Hanna, 45 feet west of a trestle over Serviceberry creek, 330 feet east of a private crossing and 2 feet north of southerly limit of right of way, bolt set vertically. No S-142. Elevation 2,870.817

See Rockyford and Rosebud.

Hanna; N.A Ry. Iron pipe with brass cap, about 7 miles southeast of station, on east boundary of sec 26-80-19 525 feet north of $\frac{1}{2}$ sec corner and 30 feet south of southerly limit of a road. No T-15. Elevation 2,018.944

Iron pipe with brass cap, $\frac{1}{2}$ miles southeast of station, 3 feet southwest of northeast limit right of way and at second pole southeast of mile post 23 from Wmaganu, near the centre of a cut. No 426-H. Elevation 2,001.456.

Concrete bench-mark pier, $\frac{1}{2}$ mile northwest of station, 3 feet southwest of northeast limit of right of way and at fifth pole southeast of mile post 25 from Wmaganu, 457 feet southeast of a corrugated iron pipe culvert. Tablet in top of pier. No 427-H. Elevation 1,980.097

See Springburn and Nampa.

Ribstone; C N Ry. Concrete bench-mark pier, $\frac{1}{4}$ miles west of station and 27 feet west of eighth pole west of mile post 113 from Biggar, 2,940 feet west of bridge over Ribstone creek and 7 feet south of northerly limit of right of way bolt set horizontally in north side of pier. No 31-H. Elevation 2,042.217

See Chauvin and Dunn.

Richdale; C N Ry Concrete bench-mark pier, 2 miles northwest of station and 13 feet east of tenth pole east of mile post 123 from Kindersley, 132 feet west of a private crossing 2440 feet westerly from road allowance along east boundary of sec 4-31-12 and 2 feet south of northerly limit of right of way, tablet in top of pier No S-103. Elevation 2,548.504

See Alness and Stanmore

River Bend; C N Ry See Oliver, B M No L-2

Robertson; C P Ry bridge over northerly channel of Bow River, 1 mile east of station and at mileage 7.8 from Calgary. Rear or northwest face of northwest stone abutment, in line with southwest truss and in first course below bridge seat. Bolt set horizontally No 319-C Elevation 3,615.125.

See Calgary and Bearspaw

Rockyford; C N Ry Concrete bench-mark pier, 1½ miles northeast of station and 16 feet east of tenth pole east of mile post 86 from Hanna, 545 feet easterly from road allowance along east boundary of sec 27-26-23 and 2 feet south of northerly limit of right of way, tablet in top of pier No S-142. Elevation 2,746.870.

Concrete box culvert, 1 mile southwest of station and at mile post 88 from Hanna, bolt set vertically in top of coping on north end of culvert, 7 inches from east end of same No S-146. Elevation 2,775.388

Concrete bench-mark pier 2½ miles southwest of station and 17 feet east of fourteenth pole west of mile post 89 from Hanna, 132 feet westerly from road allowance along north boundary of sec 8-26-23 and 2 feet south of northerly limit of right of way, tablet in top of pier No S-147. Elevation 2,785.887

See Bambree and Redland

Roma; N A Ry Iron pipe with brass cap, 3½ miles northeast of station, 3 feet east of westerly limit of right of way, i.e., at left hand side of track when proceeding from station, 4 feet north of first pole north (toward Peace River) from mile post 54 from Winagami and 10 feet south of a road crossing No. 441-H Elevation 1,573.380.

Iron pipe with brass cap, 1½ miles east of station, 3 feet north of southerly limit of right of way 40 feet west of fifteenth pole east of mile post 57 from Winagami and 435 feet east of road allowance along east boundary of sec 16-83-22 No 442-H Elevation 1,740.205

Iron pipe with brass cap, 1½ miles northwest of station 3 feet south of northerly limit of right of way 30 feet east of first pole east of mile post 58 from Winagami and 30 feet east of road allowance along east boundary of sec 30-83-22 No 443-H Elevation 1,854.551

See Peace River and Grimsby

Rosebud; C N Ry Concrete bench-mark pier, 1½ miles northeast of station, 600 feet west of trestle bridge at mileage 74.6 from Hanna, 7 feet east of twenty-fifth pole west of mile post 74.2 feet south of northerly limit of right of way, bolt set vertically No S-139. Elevation 2,561.315

Rosebud hotel 4 feet, ½ northwest of station on concrete foundation of southwest side wall 1 foot from southerly corner and 2 feet 1 inch below woodwork bolt set horizontally No S-140. Elevation 2,509.617

Concrete bench-mark pier, 1½ miles west of station and 29 feet west of seventeenth pole east of mile post 78 from Hanna, 200 feet east of the centre of a cut, 76 feet west of a private crossing and 2 feet south of northerly limit of right of way, bolt set vertically No S-141. Elevation 2,803.308.

See Redland and Beynon.

Rosedale; C N Ry Concrete bench-mark pier, 2 miles southwest of station and 30 feet east of tenth pole east of mile post 59 from Hanna, 735 feet east of plate girder bridge over Rosebud River 170 feet east of a private crossing and 2 feet south of northerly limit of right of way tablet in top of pier No. S-135. Elevation 2,200 725.

Concrete bench-mark pier 2 miles northwest of station and 20 feet north of fourth pole north of mile post 58 from Hanna, 244 feet south of a concrete arch culvert and 2 feet east of westerly limit of right of way, tablet in top of pier No. S-134. Elevation 2,247-086

See Wayne and Drumheller

Rosemary; C P Ry Water tank, in concrete foundation wall 13 inches below woodwork and directly beneath the spout, bolt set horizontally No. 338-D Elevation 2,443-224

Concrete bench-mark pier 4 miles west of station and at mile post 105 from Empress 30 feet westerly from road allowance along east boundary of sec. 8-21-16 and 3 feet north of northerly limit of right of way, bolt set vertically No. 337-D. Elevation 2,458 647

See Countess and Duchess

Roxanna; N A Ry Iron pipe with brass cap, 1½ miles south of south switch, 47 feet east of track 35 feet south of fourteenth pole south of mile post 4 from Wmagsami and 175 feet south of centre line of sec. 13-78-20. No. 420-H Elevation 2,040-221

Iron pipe with brass cap on high ground 1 mile north of north switch, 480 feet south of mile sign, 4 feet east of westerly limit of right of way, 23 feet north of seventh pole south of mile post 8 from Wmagsami and 100 feet north of a farm crossing No. 421-H Elevation 2,062 684

Iron pipe with brass cap 4½ miles north of north switch, 47 feet west of track, 75 feet south of twelve pole south of mile post 10 from Wmagsami, 790 feet south of a whistler post for southbound trains and 1,250 feet south of a corrugated iron pipe culvert immediately north of a curve No. 422-H Elevation 2,138-102

See McLennan and Springburn.

Royal Park; C N Ry Iron pipe filled with concrete, 1,650 feet southeast of station, 630 feet east of east switch of passing track and 4 feet south of northerly limit of right of way bolt set vertically No. L-19 Elevation 2,167 732

Iron pipe filled with concrete, 3½ miles southeast of station and 15 feet east of fourteenth pole west of mile post 60 from Vermilion or eighth pole west of road allowance along east boundary of sec. 27-52-15, 4 feet south of northerly limit of right of way, bolt set vertically No. L-20 Elevation 2,116 613

See Monclare and Vegreville

Rycroft; N A Ry Concrete bench-mark pier about 2,000 feet east of station, 5 feet north of northerly limit of right of way and between ninth and tenth poles east of mile post 352 from junction with C N Ry, 200 feet west of a road crossing. Tablet in top of pier No. 376-H Elevation 1,985-408.

Public school. Tablet in front of masonry concrete foundation wall, midway between the two basement windows at east side of entrance and at level of window m.s.h. No. 377-H Elevation 1,998 574

Iron pipe with brass cap, 2 miles south of station, at westerly limit of Edmonton-Dawson Creek highway, 575 feet south of 1/2 section corner, on east boundary of sec. 5, 26 feet north of a gate at a farm entrance and 5 feet south of a telephone pole No. T-48. Elevation 2,074 488.

Iron pipe with brass cap. $1\frac{1}{2}$ miles west of station, at first telephone pole east of mile post 354 and at west limit of road between lots 19 and 20, Spirit River Settlement, 4 feet north of northerly limit of right of way No. T-46. Elevation 1,999-774.

See Prestville and Spirit River

Ryley; C.N.Ry. Concrete foundation of demolished N. Racher's flour mill, in northwest face of concrete stairway on southwest side of foundation, 6 inches below tread of top step and 15 inches southwesterly from front wall of foundation, bolt set horizontally No. 47-H. Elevation 2,268 680.

Disused concrete pier at south side of track, formerly used to support lever for interlocking plant, 1 mile northwest of station and 42 feet east of Haight Junction switch, bolt set horizontally in southwest face of pier, 4 inches below top No. 48-H. Elevation 2,272 401.

See Holden and Shonto

St. Albert; C.N.Ry. See Campbell, B.M. No. U-2.

St. Paul; C.N.Ry. Concrete bench-mark pier, $\frac{1}{2}$ mile northwest of station, 4 feet southwest of northeast limit of right of way, 35 feet northwest of fourteenth pole northeast of mile post 119 from St. Paul Junction and 520 feet southeast of road allowance along east boundary of sec. 7-38-9. Bolt set vertically No. DD-26. Elevation 2,136 226.

Section house, 500 feet east of station. East end wall, in concrete foundation, 11 inches from front corner and 5 inches below woodwork. Bolt set horizontally No. DD-27. Elevation 2,120 162.

Concrete bench-mark pier, $\frac{1}{2}$ mile east of station, 4 feet north of southerly limit of right of way and between fifth and sixth poles west of mile post 121 from St. Paul Junction, 840 feet east of first road crossing east of station and 45 feet east of easterly corner of a frame house set cornerwise to the track. Bolt set vertically No. DD-28. Elevation 2,104 812.

See Owlseye.

Sandstone; C.P.Ry. Concrete box culvert, 400 feet south of station and between ninth and tenth poles south of mile post 22 from Twelfth Street east, Calgary, in north end of west face, 7 inches below top, bolt set horizontally No. 58-D. Elevation 3,521-561.

See DeWinton and Okotoks

Saulteaux; N.A.Ry. Concrete bench-mark pier, 1 mile west of station, 45 feet north of track 6 feet east of seventh pole west of mile post 145 from junction with C.N.Ry. and 36 feet east of Government telephone pole No. 2-2156, on a small knoll in a long muskeg. Bolt set vertically No. U-41. Elevation 1,943 439.

See Derrene and Overlea.

Sawback; C.P.Ry. Concrete bench-mark pier, $\frac{1}{2}$ mile northwest of northwest switch, 95 feet north east of track and 150 feet northwest of mile post 89 from Calgary opposite a point where railway touches an inlet from Bow River. Northeast face of pier. Bolt set horizontally No. 242-C. Elevation 4,563 649.

See Banff and Mount Eisenhower

Scotfield; C.N.Ry. Concrete bench-mark pier, $1\frac{1}{2}$ miles southeast of station and 16 feet east of ninth pole east of mile post 107 from Kendersley, 347 feet west of a whistle post for eastbound trains, 1,625 feet westerly from road allowance along east boundary of sec. 11-30-10 and 2 feet south of northerly limit of right of way, tablet in top of pier No. S-100. Elevation 2,493 043.

Concrete bench mark pier, 2½ miles northwest of station and 15 feet east of seventeenth pole west of mile post 110 from Kindersley 480 feet west of a whistle post for westbound trains, 800 feet easterly from road allowance along east boundary of sec 18-30-10 and 1 foot south of northerly limit of right of way, tablet on top of pier No S-101 Elevation 2,506.501

See Stanmore and Youngstown

Scandford: C N Ry Iron pipe filled with concrete, ½ mile northeast of station and 12 feet west of third pole east of mile post 106 from Vermilion, 40 feet east, 1 east switch of passing track 600 feet westerly from road allowance along east boundary 1 sec 20-35-21 and 3 feet south of northerly limit of right of way, tablet on top of pier No S-101 Elevation 2,064.171

Iron pipe filled with concrete 3 miles west east of station, 1 mile post 15 feet west of third pole west of mile post 103 from Vermilion 900 feet east of a private crossing and 3 feet south of northerly limit of right of way bolt set vertically No L-8 Elevation 2,059.413.

See Fort Saskatchewan and Breuderheim

Salem Beach: C N Ry See Faids B M No 70-H

Saskatoon: C P Ry Large flat boulder 2½ miles northeast of station 30 feet north of track and at third pole east of mile post 50 from Calgary East face of boulder Bolt set horizontally No 228-1 Elevation 4,222.367

Steel truss bridge over Kananaskis River 1 mile east of station South face of west concrete abutment 30 inches below bridge seat Bolt set horizontally No 230-4 Elevation 4,212.616

C P Ry steel truss bridge over Bow River 1 mile west of station North face of west concrete abutment 30 inches below bridge seat Bolt set horizontally No 230-4 Elevation 4,207.510

See Morley and Exshaw

Sentinel: C P Ry Plate girder bridge, ½ mile east of highway crossing at station and at mileage 95.6 from Lethbridge North face of east concrete abutment 18 inches below bridge seat Bolt set horizontally No 107-D Elevation 4,439.939

Large concrete arch culvert 2½ miles east of Cranbrook B.C. and at mileage 98.3 is on left bank in east face of south face-wall 16 inches below top bolt set horizontally No 108-1 Elevation 4,428.307

Interpreted boundary monument between Alberta and British Columbia at The Great Divide 580 feet southeast of Cranbrook station and 50 feet northwest of main track bolt set 1.5 inches by in southwest face of concrete base No 109-D Elevation 4,457.013

Large concrete box culvert the more easterly of two, 2 miles northwest of Cranbrook B.C. in south face of culvert 3 feet 3 inches from west end and 11 inches below top bolt set horizontally No 110-1 Elevation 4,406.881

Stone retaining wall set at north side of track 4 miles northwest of Cranbrook B.C. in west face of concrete coping 10 inches below top, bolt set horizontally No 111-D Elevation 4,399.240

See Coleman

Sevenpersons: C P Ry Plate girder bridge over Sevenpersons creek, 2 miles east of station in south face of west concrete abutment 1 foot below top, bolt set horizontally No 173-C Elevation 2,460.322

Double concrete culvert, 3½ miles east of station and at mile post 14 from Dunmore, at sixteenth pole west 1 foot allowance along east boundary of sec 12-11-7 in east face of west wing-wall at south end of culvert bolt set horizontally No 172-C Elevation 2,449.983

Large concrete arch culvert, 2½ miles southwest of station and at mileage 19.8 from Dunmore, in west face of coping on south end of culvert, bolt set horizontally No. 174-C Elevation 2,518-203.

See Dauntless and Whistle.

Sexsmith; N A Ry Iron pipe with brass cap, 3½ miles northeast of station, 16 feet north of southerly limit of right of way and at mileage 32.5 from Rycroft, 40 feet east of a gate in right of way fence and about 1,800 feet west of road allowance along east boundary of sec. 12-74-6 No. T-55. Elevation 2,495-639

Iron pipe with brass cap, 1½ miles north of station, 4 feet west of easterly limit of right of way 26 feet south of seventh pole south of mile post 34 from Rycroft and 100 feet southerly from road allowance along east boundary of sec. 35-73-6 No. 388-H Elevation 2,424-448.

War memorial monument. Tablet at centre of rear or west face, 5 inches above base No. 388-H E elevation 2,364-683

Pub. r schm., 1929 Tablet in front of south concrete foundation wall, midway between the two basement windows to the west of entrance and 1 foot below woodwork No. 388-H 2 Elevation 2,358-917

Iron pipe with brass cap at south side of engine house of Alberta Pool elevator No. 2 opposite station, 8 feet east of southwest corner of engine house and partly covered by foundation of south wall No. T-55-A Elevation 2,369-683

Iron pipe with brass cap, 1 mile south of station, 1 foot east of west limit of road allowance along east boundary of sec. 24-73-6, 780 feet south of ½ section corner and 13 feet north of a gate No. T-56. Elevation 2,369-688

See Webster and Clairmont.

Sharraway; C P Ry Concrete bench-mark pier 1½ miles northeast of station and at mile post 7 from Empress, at the east end of a deep cut, 760 feet easterly from road allowance along east boundary of sec. 1 23-2 and 4 feet south of northerly limit of right of way, bolt set vertically. No. 363-D Elevation 2,010-683

See Bradloss and Empress.

Shouts; C N Ry Water tank, 1 mile southeast of station, in southwest face of concrete foundation wall, 3 feet 4 inches to the right of the spout and 4 inches below woodwork, bolt set horizontally No. 49-H Elevation 2,232-066

See Ryley and Tofield.

Sibbald; C N Ry Pioneer Grain Company's elevator, directly opposite the station in east concrete foundation wall, 13 inches from northeast corner and 14 inches below woodwork, bolt set horizontally No. 8-80 Elevation 2,257-225

Concrete bench-mark pier, 1½ miles southeast of station and at mileage 49.6 from Kindersley, 363 feet westerly from road allowance along east boundary of sec. 7-29-1 and 2 feet south of northerly limit of right of way; tablet on top of pier No. 8-79 Elevation 2,247-221

This bench mark was not found during inspection of 1947

Royal Bank at Ahsask, Sask., on west side of main street, directly north of station, in south concrete foundation wall, 16 inches from southeast corner and 10 inches below woodwork bolt set horizontally No. 8-77 Elevation 2,304-942

Royal Bank at Ahsask, Sask., in east concrete foundation wall, 10 inches from southeast corner and 3 feet 2 inches below brickwork; bolt set horizontally No. 8-78 Elevation 2,312-178.

Public school (school district No. 2781) at Alaski Bank, on south concrete foundation wall 9 inches from southwest corner and 4 feet 6 inches below benchmark bolt set horizontally No. 8-75 Elevation 2,233.779

Concrete bench mark post 33 miles north of Alaski Bank on road allowance along east boundary of sec 22-28-29 4 feet east of west limit of road allowance and 100 feet north of southeast corner of sec 22 bolt set vertically No. 631-C Elevation 2,275.198

This bench mark was not found during inspection of 1947

Concrete bench mark post 33 miles north of Alaski, on road allowance along east boundary of sec 13-28-1. The post is 3 feet east of west limit of road allowance and 23 feet north of southeast corner of sec 13 bolt set vertically No. 629-C Elevation 2,298.543

See Benton, Empress, and Compeer

Concrete bench mark post 10 miles north of Alaski, Bank, on road allowance along east boundary of sec 26-29-1 3 feet east of west limit of road allowance and 25 feet north of east quarter corner of sec 26 bolt set vertically No. 631-C Elevation 2,210.084

This bench mark was not found during inspection of 1947

Concrete bench mark post 33 miles north of Alaski Bank, on road allowance along east boundary of sec 27-27-29 4 feet east of west limit of road allowance and 20 feet north of southeast corner of sec 27 bolt set vertically No. 629-C Elevation 2,298.221

Concrete bench mark post 9 miles south of Alaski Bank, on road allowance along east boundary of sec 29-26-29 4 feet east of west limit of road allowance and 1120 feet south of southeast corner of sec 29 bolt set vertically No. 629-C Elevation 2,245.245

Concrete bench mark post 111 miles south of Alaski Bank on road allowance along east boundary of sec 9-26-29 4 feet east of west limit of road allowance and 20 feet south of northeast corner of sec 9 bolt set vertically No. 629-C Elevation 2,475.225

Concrete bench mark post 154 miles south of Alaski Bank on road allowance along east boundary of sec 21-25-29 3 feet east of west limit of road allowance and 12 feet south of northeast corner of sec 21 bolt set vertically No. 627-C Elevation 2,531.218

Three Lakes N. & Ry. Iron pipe with brass cap 31 miles northwest of station 52 feet southwest of track 116 feet northwest of mile post 166 from junction with C.N.Ry. and 96 feet southeast of a private dwelling. N. 307-11 Elevation 1,918.038

Concrete bench mark post 1 mile east of station 3 feet north of northeast corner of right of way 3 feet east of second pole east of mile post 162 from junction with C.N.Ry. and 150 feet east of a private dwelling. Bolt set vertically No. 1-45 Elevation 1,912.744

Concrete bench mark post 2 miles west of station 3 feet south of northeast corner of right of way 10 feet west of northeast pole west of mile post 164 from junction with C.N.Ry. and 150 feet west of road allowance along east boundary of sec 3-73-6 Bolt set vertically No. 1-46 Elevation 1,900.785

See Wagner and Overlea

Smiths N. & Ry. Concrete bench mark post 3 miles south of station 45 feet east of track 100 feet south of second pole north of mile post 128 from junction with C.N.Ry. and 10 feet north of Government telephone pole No. 2-1547 Bolt set vertically No. 1-34 Elevation 1,929.206

Steel truss bridge over Athabasca River 1 mile west of station. East concrete abutment bolt set vertically in top of balast wall 16 inches from south (upstream) edge and 10 inches from west edge No. 1-35 Elevation 1,884.741

Same bridge as bench-mark No U-35. West concrete abutment, bolt set vertically in top of ballast wall, 1 foot from south edge and 14 inches from east edge. No. U-36. Elevation 1,854 778.

Same bridge as bench mark No. U-35. South or upstream face of most easterly concrete pier, 3 feet 8 inches from east face, 1 foot above bottom of battered portion and about 48 feet below track level. Bolt set horizontally. No U-37. Elevation 1,808 616.

Concrete bench-mark pier, 1½ miles northwest of station, 35 feet southwest of track 3 feet southeast of ninth pole northwest of mile post 132 from junction with C N Ry and 280 feet northwest of station mile-sign and yard limit sign. Bolt set vertically. No U-38. Elevation 1,872 716.

See Hondo and Decrene.

Smoky Lake; C N Ry. Concrete bench-mark pier, 2½ miles south of station, 3 feet south of northerly limit of right of way, 40 feet east of mile post 62 from St. Paul Junction and 10 feet east of whistle post ½ mile east of road allowance along east boundary of sec 8-59-17. Bolt set vertically. No DD-8. Elevation 2,123 866.

Concrete bench-mark pier 1½ miles north of station, 3 feet east of westerly limit of right of way 3 feet south of third pole south of mile post 60 from St. Paul Junction and 2,310 feet north of road allowance along north boundary of sec 22-59-17. Bolt set vertically. No DD-9. Elevation 1,909 383.

See Warapite and Edward.

Smiling; C N Ry. See Henry House B M No 101-H.

Solomon; C N Ry. See Entrance B M No 94-H.

Southend; CP Ry. Concrete box culvert, 50 feet north of north switch and at second pole south of mile post 81 from Medicine Hat, in centre of southwest face. bolt set horizontally. No 312-D. Elevation 2,505 738.

See Lathom and Cassula.

Spedden; C N Ry. Concrete bench-mark pier, 1½ miles west of station, 3 feet south of northerly limit of right of way, 105 feet east of mile post 97 from St. Paul Junction and 285 feet west of road allowance along east boundary of sec 32-59-12. Bolt set vertically. No DD-19. Elevation 2,135 444.

Concrete bench mark pier, 2½ miles east of station. 4 feet north of southerly limit of right of way, 35 feet east of first pole east of mile post 101 from St. Paul Junction, 695 feet west of road allowance along east boundary of sec 36-59-12 and 100 feet east of a private crossing. Bolt set vertically. No. DD-20. Elevation 2,089 601.

See Vilna and Ashmont.

Spirit River; N A Ry. Concrete bench-mark pier about 1,800 feet east of station, 3 feet north of southerly limit of right of way and 50 feet west of road crossing at first pole east of mile post 357 from junction with C N Ry. Tablet in top of pier. No 378-H. Elevation 2,068 950.

Iron pipe with brass cap, 17 miles west of village of Spirit River, 300 feet west of bridge over Kautuan River and 42 feet north of centre line of road. No. 712-H. Elevation 2,167 447.

Iron pipe with brass cap, 14 miles west of village of Spirit River, 2½ miles southeast of bridge over Kautuan River, 300 feet northwest of bridge over dry creek, 12 feet west of a checkerboard sign for east bound traffic, 40 feet southwest of centre line of road. No 713-H. Elevation 2,301 744.

Iron pipe with brass cap, at junction of road to Happy Valley, 1½ miles west of town of Spirit River, about opposite a direction sign board marked "Dawson Creek", 26 feet west of a wooden culvert under branch road, 26 feet south of centre line of main road. No 714-H. Elevation 2,292 2314.

Iron pipe with brass cap, 9 miles west of town of Spirit River, 3 miles east of wooden bridge over a creek, 12 feet west of northeast corner section 19-78-7 No 715-H Elevation 2,347.029

Iron pipe with brass cap, 6½ miles west of town of Spirit River at the point where road leaves west-east direction and curves due west to low level bridge over Ranken's Creek, about 800 feet northwest of end road to farm of Hubert Mary e. 375 feet east of a box culvert at beginning of curve and 23 feet north of centre line of road No 716-H Elevation 2,339.339

Iron pipe with brass cap, 4½ miles west of town of Spirit River on fence line, 25 feet west of north quarter corner section 24-78-7 No 717-H Elevation 2,223.097

Iron pipe with brass cap, 1½ miles west of town of Spirit River on fence line, 21 feet south of northeast corner set on 20-78-6 No 718-H Elevation 2,130.534.

See Rycroft, Ether, and Gordondale.

Springburn; N.A.Ry Iron pipe with brass cap, 3½ miles south of south switch, 47 feet east of track and 58 feet south of mile post 13 from Wimagami at the north end of a long shallow cut No 423-H Elevation 2,166.581

Iron pipe with brass cap 1,000 feet south of south switch, 3 feet west of easterly limit of right of way and between first and second poles south of mile post 16 from Wimagami 100 feet south of road allowance along north boundary of sec 9-80-19 No. 424-H Elevation 2,123.214

Iron pipe with brass cap, 2½ miles north of north switch 50 feet east of track, 50 feet north of second pole south of mile post 19 from Wimagami and 840 feet south of a corrugated iron pipe culvert No. 425-H Elevation 2,069.322

See Rosana and Reno.

Sprucegrove; C.N.Ry Public school No 450. Front or south concrete foundation wall of front section 8 inches from southwest corner and 1 foot below woodwork Bolt set horizontally No 64-H Elevation 2,225.068.

See Acheson and Stonyplain

Spurfield; N.A.Ry See Saulteaux B.M. No. U-41

Standard; C.P.Ry Public school. tablet in north or front concrete foundation wall, 14 inches from northwest corner and 3 feet 6 inches below brickwork. No. 297-D-2. Elevation 2,954.956

Concrete bench-mark pier 3½ miles east of station and at mileage 22.3 from Bassano, 27 feet westerly from road allowance along east boundary of sec 6-25-21 and 4 feet north of southerly limit of right of way, bolt set vertically No. 298-D Elevation 2,872.893.

Concrete bench-mark pier 4½ miles west of station and at mileage 39.9 from Bassano, 72 feet westerly from road allowance along east boundary of sec 12-25-23 and 14 feet south of northerly limit of right of way, bolt set vertically No 296-D Elevation 2,921.452

See Tudor and Chancellor

Stanmore; C.N.Ry Public school, in north concrete foundation wall, 10 inches from northeast corner and 1 foot below woodwork, bolt set horizontally No. S-103. Elevation 2,581.274

Concrete bench-mark pier, 1½ miles east of station and 20 feet west of eleventh pole east of mile post 115 from Kindersley, 1,240 feet easterly from road allowance along east boundary of sec 21-30-11 and 2 feet south of northerly limit of right of way tablet in top of pier No S-102. Elevation 2,566.852

Concrete bench mark pier, 2½ miles northwest of station and 36 feet west of eleventh pole east of mile post 119 from Kindersley, about midway between two sloughs which are about 600 feet apart, 2,000 feet westerly from road allowance along east boundary of sec 25-30-12 and 2 feet south of northerly limit of right of way tablet in top of pier No. 8-104 Elevation 2,525.907

See Ruchdale and Scottfield.

Stavely: C P Ry Canadian Bank of Commerce West side wall, in concrete foundation, 3 feet 7 inches from front corner and 14 inches below brickwork. Bolt set horizontally No. Ct-10. Elevation 3,420.217

Residence of J. E. Yorgason on northwest ½ section 33-13-27, 2 miles south of station and 400 feet east of railway. North concrete foundation wall, 1 foot from northeast corner and 18 inches below woodwork. Bolt set horizontally No. Ct-11. Elevation 3,292.620.

See Parkland and Claresholm.

Stephens: C P Ry Plate girder bridge over Bath Creek, 1 mile northeast of station and at mileage 121.2 from Calgary, in west concrete abutment, south end of east face 15 inches above bridge seat. Bolt set horizontally No. 251-C. Elevation 5,282.451

Interprovincial boundary monument between Alberta and British Columbia, at "The Great Divide", at station and 110 feet south of track, north face of concrete base bolt set horizontally No. 252-C. Elevation 5,344.187

When inspected in 1944 it was found that the base of the monument had been cement plastered, covering the bench mark.

See Lake Louise.

Stettler: C P Ry Municipal water tank, in southeasterly concrete footing, 4 inches from southwest edge and 3 inches from southeast edge, bolt set vertically No. Z-12. Elevation 2,698.207

Concrete bench mark pier 4 miles east of station and 17 feet east of fifth pole east of mile post 53 from Coronation or thirteenth pole west of road allowance along east boundary of sec 35-38-19, 3 feet north of southerly limit of right of way, bolt set vertically No. Z-13. Elevation 2,655.236.

See Botha and Erskine.

Stirling: C P Ry Red granite boulder, 3 miles northwest of station, 10 feet northeast of southwest limit of right of way and 30 feet northwest of fourteenth pole southwest of mile post 90 from Manyberries. Northwest face of boulder. Bolt set horizontally No. 202-C. Elevation 3,072.078

Station. Rear or east-west concrete foundation wall, 4 feet 4 inches from southerly corner and 1 foot below woodwork. Bolt set horizontally No. 203-C. Elevation 3,040.536.

See Wilson and New Dayton.

Stonyplain: C N Ry Remains of Armbruster Lumber Company's planing mill (destroyed by fire) at east side of the main street, immediately south of railway. North face of concrete foundation wall of frame section of building 2 feet 6 inches west of northwest corner of brick section and 6 inches below ledge in foundation. Bolt set horizontally No. 63-H. Elevation 2,327.434

See Sprucegrove and Carval.

Stover: C P Ry Section house at northeast end of passing track. Front or northwest concrete foundation wall, 10 feet 6 inches from westerly corner and 5 inches below sheathing. Bolt set horizontally No. 89-D. Elevation 3,225.138.

See Macleod and Peigan.

Stratbeacons: C.P.Ry See Edmonton.

Sturgeon Heights; Iron pipe with brass cap at a curve and 63 feet north of centre of road, 1 foot east of barbed wire fence line running northerly to shore line of Sturgeon Lake 8 feet south of a gate in such fence, 57 feet south of a log cabin. No 628-H Elevation 2,250 454

Sturgeon Lake Roman Catholic Mission Convent Tablet in front concrete foundation wall, 3 feet from southwest corner of building and 18 inches above ground. No 629-H Elevation 2,272 694

Residence of Mr. W. Johnson owner of general store, $\frac{1}{2}$ mile south of the Mission church. Tablet in northerly concrete foundation wall of building, 6 feet from northwest corner of verandah and 4 inches below woodwork. No 630-H Elevation 2,265 071

Iron pipe with brass cap, $\frac{3}{4}$ miles west of Sturgeon Lake Mission Church, 4 feet southwest of telephone pole No 4-1182 or fourth pole southeast of wooden bridge over a creek 36 feet northeast of centre line of road No 631-H Elevation 2,220 895

Iron pipe with brass cap, $\frac{3}{4}$ miles west of Sturgeon Lake Mission Church or $\frac{3}{4}$ miles east of Sturgeon Heights store 87 feet southwest of a pipe culvert, midway between telephone poles Nos. 4-1289 and 4-1290 or the seventh and eighth poles respectively east of intersection of a north-south road allowance 38 feet northwest of centre line of road and in line with poles. No 632-H Elevation 2,287 380

Iron pipe with brass cap near Sturgeon Heights general store, 8 miles west of Sturgeon Lake Mission Church 9 feet east of telephone pole No 4-1366 or sixth pole east of the store. No 633-H Elevation 2,233 291

Iron pipe with brass cap near farmhouse owned by John Brohnman about $\frac{3}{4}$ miles northwest of Sturgeon Heights store, 100 feet west of west wall of house and 2 feet west of north-south fence line 45 feet north of centre line of road. No 634-H Elevation 2,452 032

See Valleyview and Crooked Creek.

Strath; C N Ry. See Wildwood B M. No 73-H

Suffield; C P Ry. Station in northeast concrete foundation wall, 11 feet southeast of rear entrance and 11 inches below woodwork, bolt set horizontally. No 326-D. Elevation 2,463 462

Suffield Cafe and Grocery a red brick building on east side of the main street about 300 yards north of railway in concrete foundation of south side wall 10 feet from southwest corner and 3 inches below brickwork, bolt set horizontally. No 327-D. Elevation 2,459 541

See Alderson and Bowell

Sundown; C N Ry. United Grain Growers elevator No. 48, in west concrete foundation wall, 8 feet from southwest corner and 19 inches below metal sheathing, bolt set horizontally. No 51-F. Elevation 2,952 978

See Three Hills and Grainger

Sweetgrass; Montana. See Coutts

Taher; C P Ry. Public school, in concrete foundation of west side wall, 4 feet 8 inches from southwest corner and 9 inches below brickwork, bolt set horizontally. No 187-C. Elevation 2,658 540

Canadian Bank of Commerce in concrete foundation of west side wall, 4 feet from southwest corner and 18 inches below brickwork, bolt set horizontally. No 188-C. Elevation 2,658 081

Concrete bench-mark pier, $\frac{1}{2}$ miles east of station and 100 feet east of mile post 72 from Dunmore, $\frac{1}{2}$ mile westerly from east boundary of sec. 12-10-16 and 5 feet north of southerly limit of right of way, bolt set horizontally in north side of pier. No 189-C. Elevation 2,641 318

Concrete box culvert, 2 miles west of station and at mileage 78-6 from Dunmore, 1,960 feet easterly from road allowance along east boundary of sec 25-9-17, in west end of south face 16 inches below top, bolt set horizontally No. 188-C. Elevation 2,677-443.

See Purple Springs and Jamieson.

Tangent; N A Ry Iron pipe with brass cap, on high ground, 2 miles southeast of station, 19 feet south of northerly limit of right of way and at mileage 305-4 from junction with C N Ry, 160 feet west of a road crossing. No. 361-H. Elevation 1,727-430.

Iron pipe with brass cap, ½ mile west of station, 720 feet west of west wye switch 4 feet north of southerly limit of right of way, 75 feet east of mile post 308 from junction with C N Ry and 93 feet east of a private crossing No. 362-H. Elevation 1,822-155.

Iron pipe with brass cap 3 miles west of station, 4 feet south of northerly limit of right of way and at mileage 310-4 from junction with C N Ry, 97 feet east of road allowance along east boundary of sec 26-78-25. No. 363-H. Elevation 1,856-038.

See Watino and Eaglesham.

Tees; C P Ry Alberta-Pacific Grain Company's elevator, in east concrete foundation wall, 30 feet from southeast corner and 9 inches below metal sheathing, bolt set horizontally No. Z-5. Elevation 2,710-443.

See Alix and Clive.

Threshold; N A Ry Foundation built for water tank, 2 miles southwest of station and at mileage 36-8 from Carbondale, in centre of northwest face of southwesterly concrete footing, 6 inches below top, bolt set horizontally. No. V-10. Elevation 2,130-075.

Concrete bench-mark pier 1 mile northeast of station and 20 feet north of second pole south of mile post 40 from Carbondale, 110 feet south of north end of sign and 3 feet west of easterly limit of right of way, bolt set vertically. No. V-11. Elevation 2,136-240.

See Egremont and Abes.

Three Hills; C N Ry Concrete bench-mark pier, 3½ miles north of station and 12 feet north of third pole north of mile post 57 from Mirror, about 170 feet n. rh of south end of a short tangent and 5 feet east of westerly limit of right of way, bolt set horizontally in north side of pier. No. 54-F. Elevation 2,982-751.

See Trochu and Swalwell.

Throne; C P Ry Concrete bench-mark pier, 1 mile southeast of station and at mileage 107-8 from Kerrobert, 80 feet westerly from road allowance along east boundary of sec 30-35-9 and 3 feet north of southerly limit of right of way, bolt set vertically. No. Z-30. Elevation 2,593-858.

Concrete bench-mark pier, 3½ miles northwest of station and at mileage 112-3 from Kerrobert, 17 feet westerly from road allowance along east boundary of sec 4-36-10 and 3 feet south of northerly limit of right of way, bolt set vertically. No. Z-29. Elevation 2,558-629.

See Veteran and Coronation.

Tieland; N A Ry Concrete bench-mark pier, 4 miles south of station, 6 feet west of easterly limit of right of way, 28 feet north of tenth pole north of mile post 97 from junction with C N Ry, 26 feet south of Government telephone pole No. 2-521 and 820 feet north of road allowance along north boundary of sec 24-68-2. Bolt set vertically. No. U-26. Elevation 1,995-721.

See Flatbush and Chisholm.

Tilley; C.P Ry. Concrete box culvert carrying irrigation ditch under railway, $\frac{1}{4}$ miles northwest of station and at mileage 54.6 from Medicine Hat, in centre of southwest face bolt set horizontally No 319-D Elevation 2,455.394.

Concrete box culvert, immediately northwest of another culvert carrying an irrigation ditch under railway, $\frac{1}{4}$ miles southeast of station and at mileage 51.9 from Medicine Hat, in centre of northeast face 13 inches below top bolt set horizontally No 320-D Elevation 2,455.659.

Concrete box culvert under C.P Ry., 5 miles southeast of station and at mileage 48.4 from Medicine Hat. Centre of southwest face, 14 inches below top. Bolt set horizontally No 321-D Elevation 2,461.064.

See Banty and Alderson.

Tofield; C.N Ry. Fundamental bench mark, about 1 mile northwest of station, $\frac{1}{2}$ mile north of Tofield Creamery, 67 feet south and 4 feet east of northeast corner of sec 2-51-19 tablet in top of pier No 31-H-2 Elevation 2,277.999.

Station in north or rear concrete foundation wall, 20 feet from northeast corner and 21 inches below ventilator in foundation and about 12 inches below ground, bolt set horizontally No 30-H Elevation 2,293.958.

Concrete bench-mark pier 4 miles northwest of station and 12 feet east of first pole east of mile post 90 from Wainwright, 13 feet easterly from road allowance along east boundary of sec 2-51-19 and 4 feet south of northerly limit of right of way, tablet in top of pier No 31-H-3. Elevation 2,364.281.

See Shantz, Deville, and Bardo.

Torles; C.N Ry. Concrete bench-mark pier 1 mile southeast of station and 91 feet west of fifth pole west of mile post 50 from Wainwright, 115 feet east of a whistle post for station, 1,080 feet easterly from road allowance along east boundary of sec 12-48-14 and 5 feet south of northerly limit of right of way, bolt set horizontally in northeast side of pier No 44-H. Elevation 2,231.935.

See Viking and Holden.

Triangle; Iron pipe with brass cap. 200 feet east of Triangle post office and general store and 300 feet west of junction with Peace River highway, 70 feet east of fence corner at northwest cor sec 21-74-18 2 feet north of fence line No 609-H Elevation 1,582.749.

Iron pipe with brass cap, 24 miles west of Triangle road junction, 8 feet south of telephone pole No 3-2492 and 34 feet south of centre line of road. No. 610-H Elevation 1,992.430

Iron pipe with brass cap, 8 miles southwest of Triangle road junction, 4 feet southwest of telephone pole No 3-2577, or third pole southwest of mile post 5.33 feet southeast of centre line of road No 611-H. Elevation 1,964.307

Iron pipe with brass cap, 3 miles northeast of bridge over Little Smoky River, at second telephone pole south of wooden bridge over a creek, 4 feet east of such pole and 28 feet east of centre line of road No 612-H. Elevation 1,947.714.

Embedded boulder between a poplar tree and a spruce tree, 75 feet south of south end of bridge over Little Smoky River and 54 feet east of edge of highway 13 feet north of a side road. Tablet in top of boulder No 613-H Elevation 1,747.143.

See Aggie and New Fish Creek.

Trochu; C.N Ry Roman Catholic school, $\frac{1}{4}$ mile southeast of station, in west concrete foundation wall of entrance section, 1 foot from southwest corner and 2 feet below brickwork, bolt set horizontally No. 55-F Elevation 2,863.039.

See Huxley and Three Hills

Tudor; C.P Ry School-house, Glenrose S.D. No. 3164, tablet in north concrete foundation wall, 8 feet 5 inches from northwest corner and 2 feet below woodwork No. 295-D 2. Elevation 2,938.760.

Alberta-Pacific Grain Company's Elevator, in southeast concrete foundation wall, 12 feet from corner nearest the railway and 9 inches below metal sheathing, bolt set horizontally No. 295-D Elevation 2,885.852.

Concrete bench-mark pier, 3 miles west of station and at mileage 48.4 from Bassano, 65 feet easterly from road allowance along east boundary of sec 23-25-24 and 4 feet south of northerly limit of right of way; bolt set vertically No. 294-D Elevation 2,886.331

See Nightingale and Standard

Turner; C.P Ry Concrete box cattle pens, $\frac{1}{2}$ miles south of station, 280 feet north of mile sign, and at mileage 6.1 from Twelfth Street east. South face of west headwall, 6 inches below top. Bolt set horizontally No. 53-D Elevation 3,435.134.

See Calgary and Midnapore

Tweedie; N.A Ry Concrete bench-mark pier, $\frac{1}{2}$ miles northeast of station and 12 feet west of fourth pole west of mile post 131 from Carbondale, near the northeast end of a short tangent between two curves, 400 feet easterly from road allowance along east boundary of sec 21-08-12 and 40 feet south of track, tablet in top of pier No. V-36. Elevation 1,957.821

Concrete bench-mark pier $\frac{3}{4}$ miles southwest of station and 80 feet south of third pole south of mile post 127 from Carbondale exactly opposite the north end of a curve, opposite a small lake and 40 feet east of track, tablet in top of pier No. V-36. Elevation 1,945.021

See Barnegat and Pitlochrie

Uncas; C.N Ry Concrete bench-mark pier, $\frac{1}{2}$ miles northwest of station and 30 feet east of third pole west of mile post 106 from Wanwright, 70 feet east of a private crossing, 700 feet westerly from road allowance along east boundary of sec 20-42-21 and 9 feet south of northerly limit of right of way, bolt set horizontally in northeast side of pier No. 54-H Elevation 2,426.143.

See Cooking Lake and Ardrossan

Union Junction; C.N Ry Concrete bench-mark pier, $\frac{1}{2}$ miles east of station, 2 feet north of southerly limit of right of way $\frac{1}{2}$ mile east of crossing of St. Albert road, 145 feet west of a power line crossing, 830 feet west of west wall of tall section of Canadian Government elevator and at twelfth pole east of mile post 5 from Edmonton. Tablet in top of pier No. U-1 Elevation 2,219.034.

See Edmonton and Campbell.

Valleyview; Iron pipe with brass cap, $\frac{9}{16}$ miles north of village of Valleyview, 57 feet northeast of telephone pole No. 4-470, or second pole northeast of a curve, or seventh pole northeast of mile post 30 from Triangle, 39 feet southeast of centre line of road and 6 feet southeast of line of poles, No. 621-H. Elevation 2,187.240.

Iron pipe with brass cap 63 miles north of village of Valleyview, 58 feet north of telephone pole 4-353, or tenth pole south of mile post 32 or 6th pole south of a curve to the right when travelling toward High Prairie, 42 feet east of centre line of road and 12 feet east of line of poles. No 623-H Elevation 2,194-876.

Concrete bench mark pier 33 miles north of village of Valleyview and opposite farm owned by Donald Bergstrom 100 feet south of gateway to farm near fence line along west limit of highway opposite telephone pole No 4-660 No 623 H Elevation 2,195-584

Iron pipe with brass cap 1 mile east and 1 mile north of village of Valleyview 13 feet north of fence corner at southeastern corner section 27-70-22, near fence line. No 624 H Elevation 2,233-071

Iron pipe with brass cap 1 mile west of village of Hailfield 200 feet east of the more westerly of two wooden bridges 20 feet east of entrance to farm owned by H. Hallock near fence line on south limit of road. No 625-H Elevation 2,229-081

Iron pipe with brass cap 3 miles west of village of Valleyview, on farm owned by G. Peterson in angle of fence line at northwest corner of sec 18-70-22 No 626-H Elevation 2,287-510

Iron pipe with brass cap on Murgeon Lake Indian Reserve and 2½ miles east of Hudson's Bay Company store 3½ miles west of village of Valleyview, midway between telephone poles No 4-978 and 4-977 or the tenth and eleventh poles respectively west of a wooden bridge 20 feet south of centre line of road and 8 feet south of line of poles No 627-H Elevation 2,206-024

See New Fish Creek and Murgeon Height

Waggonville C N Ry Iron pipe fitted with concrete ½ mile northwest of station and 45 feet east of seventeenth pole west of mile post 59 from Vermilion, 400 feet east of a trestle and 4 feet north of southerly limit of right of way, bolt set vertically. No 1-21 Elevation 2,082-116

Iron pipe fitted with concrete 5 miles east of station and 22 feet west of fourth pole west of mile post 52 from Vermilion 80 feet east of a private crossing and 4 feet south of northerly limit of right of way bolt set vertically. No L-22 Elevation 2,180-471

See Royal Park and Lavoy

Walden C P Ry Concrete bench mark pier ½ mile southeast of station and 46 feet east of third pole west of mile post 25 from Coronation, 12 feet west of a private crossing and 3 feet south of northerly limit of right of way, bolt set vertically. No 2-21 Elevation 2,711-328

Concrete bench mark pier 4 miles northwest of station and 45 feet east of fourteenth pole east of mile post 30 from Coronation, ½ mile easterly from east boundary of sec 21-38-13 and 3 feet north of southerly limit of right of way, bolt set vertically. No 2-20 Elevation 2,723-072

See Castor and Hallock

Wainee N A Ry Concrete bench mark pier, 4 miles northeast of station and 100 feet east of mile post 100 from Carbondale 45 feet south of track, tablet in top of pier. No V-29 Elevation 1,880-080

Concrete bench mark pier 1½ miles southwest of station and 67 feet south of eleventh pole south of mile post 103 from Carbondale, 210 feet south of a private crossing and 7 feet west of easterly limit of right of way, tablet in top of pier. No V-28 Elevation 1,886-081

See Kyle and Lee la Biche

Vermilion C N Ry Fundamental bench mark in town park, 86 feet south line of First Street and 281 feet west of west line of Blyea Avenue, tablet in top of pier No 626-C (Elevation 2,082-049)

High school, tablet in east concrete foundation wall of vestibule at main entrance 2 feet from southeast corner 3 inches below brickwork and directly beneath north end of corner stone No. R27-C Elevation 2,030-204

Alexandra public school in dressed stone foundation of projecting portion of south or front wall, 11 inches from southeast corner of projection and 6 feet 9 inches below brickwork, bolt set horizontally, facing east No. L-35 Elevation 2,023-867

Iron pipe fl. ed with concrete, 3½ miles west of station and midway between fourteenth and fifteenth poles east of mile post 4,010 feet westerly from road a lowbank along east boundary of sec 34-50-7 and 3 feet north of southerly limit of right of way, bolt set vertically No. L-34 Elevation 2,043-856

See Gaysmore and Borradaile.

Veterans; C P Ry Water tank, in easterly concrete footing of face containing the spout 5 inches from northwest edge and 4 inches from northeast edge of footing, bolt set vertically No. Z-32 Elevation 2,615-902

Concrete bench-mark pier 3½ miles northwest of station and at mileage 104.2 from Kerrobert 21 feet west of a private crossing at ninth pole east of east boundary of sec 22-35-9 and 3 feet north of southerly limit of right of way, bolt set vertically No. Z-31 Elevation 2,622-010

See Loyalist and Throne

Viking; C N Ry Public school, in southwest or front concrete foundation wall, 14 inches from southerly corner and 3 feet 7 inches below brickwork, bolt set horizontally No. 43-H Elevation 2,259-247

See Phelps and Torben

Villas; C N Ry Concrete bench-mark pier, 4 miles west of station, 2 feet southwest of northeast limit of right of way, 50 feet southeast of mile post 86 from St. Paul Junction 1,040 feet southeast of road allowance along north boundary of sec 22-59-14 and 100 feet southeast of a gate in right of way fence Bolt set vertically No. DD-16 Elevation 2,184-008

Concrete bench-mark pier, ½ mile west of station, 4 feet south of northerly limit of right of way, 12 feet west of sixth pole east of mile post 86 from St. Paul Junction and 2,112 feet west of road allowance along east boundary of sec 19-59-13 Bolt set vertically No. DD-17 Elevation 2,107-531

Concrete bench-mark pier 3½ miles east of station, 3 feet north of southerly limit of right of way, 10 feet east of seventh pole east of mile post 83 from St. Paul Junction and 2,250 feet west of road allowance along east boundary of sec 26-59-13 Bolt set vertically No. DD-18 Elevation 2,101-436

See Beliss and Spedden.

Vulcan; C P Ry Concrete bench-mark pier 5 miles northwest of station, 6 feet north of southerly limit of right of way and between second and third poles east of mile post 86 from Coalhurst 2,200 feet west of road allowance along east boundary of sec 18-17-25 and 300 feet west of a concrete culvert North face of pier Bolt set horizontally No. 67-D Elevation 3,345-773

Station Rear or southwest concrete foundation wall, 15 feet from southerly corner, 4 feet southeast of centre line of a basement window and 22 inches below woodwork Bolt set horizontally No. 68-D Elevation 3,440-303

Canadian Bank of Commerce Southwest side wall, in concrete foundation, 4 feet from front corner and 9 inches below woodwork Bolt set horizontally No. 69-D Elevation 3,452-008

See Keay and Kirkaldy

Wagner; N A Ry Iron pipe with brass cap, $3\frac{1}{2}$ miles southeast of station, 44 feet northeast of track 37 feet southeast of first pole southeast of mile post 189 from junction with C N Ry and between Government telephone poles Nos 2-2998 and 2-2999 No 308-H Elevation 1,905.463

Iron pipe with brass cap, $\frac{1}{2}$ mile west of station 940 feet east of west switch, 46 feet north of track between eleventh and twelfth poles east of mile post 173 from junction with C N Ry and between Government telephone poles Nos 2-3096 and 2-3097 No 309-H Elevation 1,913.857

See Slave Lake and Canyon Creek.

Wainwright; C N Ry Fundamental bench mark at northerly corner of Main Street and Fourth Avenue 6 feet southeast of southeast limit of Main Street and 3 feet southwest of southwest limit of Fourth Avenue, tablet in top of pier No 824-C Elevation 2,221.084.

Public arbor in southwest or front concrete foundation wall, 18 inches from westerly corner and 23 inches below brickwork, bolt set horizontally No 36-H Elevation 2,237.068

See Greenshields and Irma.

Walsh; C P Ry Bridge over Mackay creek $\frac{1}{2}$ mile west of station in south end of east face of west concrete abutment, 4 feet above bridge seat, bolt set horizontally No 135-C Elevation 2,441.485

Open culvert, $2\frac{1}{2}$ miles northeast of station and at mileage 112.8 from Swift Current in south end of northeast face of west concrete abutment, 6 inches below bridge seat, bolt set horizontally No 134-C Elevation 2,420.933

Plate girder bridge, $2\frac{1}{2}$ miles northeast of station and at mileage 111.9 from Swift Current in south end of southwest or rear face of west concrete abutment 6 inches below top bolt set horizontally No 133-C Elevation 2,419.878.

Double concrete culvert 1 mile northeast of Cummings Creek and at mileage 108.4 from Swift Current in southeast face of central wall, 10 inches below top bolt set horizontally No 132-C Elevation 2,391.781

See Larimore

Wandham; N A Ry Iron pipe with brass cap on high ground, 3 miles east of station, 5 feet south of northerly limit of right of way, 43 feet east of sixteenth pole west of mile post 332 from junction with C N Ry and 160 feet east of a trestle No 370-H Elevation 1,900.900

A Sandrock's store, at east side of the main street. Tablet in front of west concrete foundation wall 6 feet from northwest corner and 6 inches below woodwork No 371-H Elevation 1,966.056

Iron pipe with brass cap $2\frac{1}{2}$ miles west of station 4 feet north of northerly limit of right of way and 77 feet west of seventh pole west of mile post 338 from junction with C N Ry, about 2,000 feet east of road allowance along east boundary of sec 1-78-4 No 372-H Elevation 1,966.994

See Belloy and Manor

Warner; C P Ry First Evangelical church. South side wall, in concrete foundation, 9 feet 7 inches from front or southeast corner and 18 inches below woodwork Bolt set horizontally No 209-C Elevation 3,219.433

Public school. South side wall, in concrete foundation, 15 feet 8 inches from rear or southwest corner and 7 inches below brickwork Bolt set horizontally No 210-C Elevation 3,237.991

See McNab and Milk River

Warper; N A Ry Concrete bench-mark pier, 3 miles north of north switch and 63 feet south of fourth pole north of mile post 244 from Carbondale, at a small shallow cut at the south end of a shallow fill and 54 feet west of track, bolt set vertically No V-67 Elevation 1,705 539

Concrete bench-mark pier 1 mile south of south switch and 40 feet south of eighth pole south of mile post 240 from Carbondale, 30 feet northerly from north boundary of sec 13-83-6 and 52 feet west of track, bolt set vertically No V-68 Elevation 1,767 476

See Quigley and Cheecham

Warrensville; Iron pipe with brass cap, 2 4 miles south of village, 175 feet north and 66 feet east of northeast corner section 7-79-23, on fence line No. 720-H. Elevation 2,128 665

Gaspé; Mission building Tablet in east concrete foundation wall, midway between basement windows and 15 inches below woodwork No. 721-H. Elevation 2,141-239

Iron pipe with brass cap, 2 miles north of village, at 22nd Base Line, in easterly fence line of road 200 feet south of intersection of north boundary section 31-84-23. No. 722-H. Elevation 2,136 579

Iron pipe with brass cap at intersection of road allowances, 4½ miles north of village 66 feet north and 90 feet east of northeast corner section 7-85-23, 1 foot south of fence line No. 723-H. Elevation 2,131-269

Iron pipe with brass cap at farm of Charles Colwell, about 5½ miles north of village 20 feet north of driveway to farm and in line with south wall of house, 28 feet west of centre line of road No. 724-H. Elevation 2,142 464

See Grimshaw and Duxville

Waskatenau; C N Ry Concrete bench-mark pier, 3½ miles west of station 3 feet south of northerly limit of right of way and at fifth pole west of mile post 54 from St. Paul Junction, 1,510 feet east of road allowance along east boundary of sec 12-69-19 Bolt set vertically No. DD-6. Elevation 2,117 258

See Waskatenau and Smoky Lake

Waskatenau; C N Ry Concrete bench-mark pier, ½ mile east of station, 53 feet south of track, 720 feet east of trestle over Waskatenau creek and 400 feet west of road allowance along east boundary of sec 9-59-19 Bolt set vertically No. DD-5. Elevation 2,084-431

See Radway and Waspit

Waterways; N A Ry See Draper B.M. No. V-78

Watino; N A Ry Iron pipe with brass cap, on high ground, 5 miles north of station, 3 feet west of easterly limit of right of way and between second and third poles south of mile post 293 from junction with C.N Ry., 260 feet north of a private crossing No. 355-H. Elevation 1,544 230

Iron pipe with brass cap, 2½ miles north of station, 18 feet east of westerly limit of right of way and between fifteenth and sixteenth poles south of mile post 293 from junction with C.N Ry., 35 feet north of a whistle post and 60 feet north of a private crossing No. 356-H. Elevation 1,581 692

In same bridge as bench mark No. 356-H. Tablet in top of ballast wall on east concrete abutment, at north end of track, 2 feet 6 inches north of south edge of wall No. 357-H. Elevation 1,584-698

Bridge over Smoky River, ½ mile east of station. Tablet in top of north concrete retaining wall at west end of bridge, 6 feet from west end of wall No. 358-H. Elevation 1,585-561

Iron pipe with brass cap on high ground on the inside of a curve, 1½ miles west of station 3 feet southwest of northeast limit of right of way and 17 feet southeast of first pole southeast of mile post 300 from junction with C N Ry. No 389-H Elevation 1,280 410

Iron pipe with brass cap on the inside of a curve 4½ miles northwest of station 33 feet west of track and between mile post 303 from junction with C N Ry and first pole north thereof 280 feet north of a corrugated iron pipe culvert. No 389-H Elevation 1,373 371

See Culp and Tangent.

Watson; C N Ry. Concrete bench-mark pier, 1½ miles east of station and 11 feet east of ninth pole east of mile post 6 from Hanna, 665 feet east of bridge over Big pound creek 2,970 feet eastward from road allowance along east boundary of sec 16-31-15 and 3 feet south of northerly limit of right of way, tablet in top of pier. No 8-114 Elevation 2,708 279

Concrete bench-mark pier 2 miles west of station and at fourth pole east of mile post 10 from Hanna, 406 feet east of a private crossing, 2,253 feet westerly from road allowance along east boundary of sec 13-31-16 and 2 feet north of southerly limit of right of way, tablet in top of pier. No 8-115 Elevation 2,753 480

See Craignoyle and Hanna

Wayne; C N Ry. Concrete bench-mark pier 2½ miles southwest of station and 245 feet west of mile post 63 from Hanna, 100 feet east of a curved cut, 472 feet east of a trestle over Rosebud River and 2 feet north of southerly limit of right of way, tablet in top of pier. No 8-126 Elevation 2,320 611

See Beynon and Rosedale

Webster; Iron pipe with brass cap, 1½ miles northeast of station 3 feet southwest of northwest limit of right of way and at twelfth pole northeast of mile post 28 from Rycroft, 64 feet northeast of a gate in the right of way fence and about midway between crossing of road along east boundary of sec 34-74-5 and road along north boundary of sec 35-74-5. No 389-H Elevation 2,649 184.

Iron pipe with brass cap 1½ miles southwest of station 4 feet southeast of northwest limit of right of way and between first and second poles southwest of mile post 29 from Rycroft 100 feet southwest of road allowance along north boundary of sec 16-74-5. No 387-H Elevation 2,646 061

See Braeburn and Sexsmith

Wembly; N A Ry. Iron pipe with brass cap, 2 miles east of station 4 feet south of northerly limit of right of way and between first and second poles east of mile post 63 from Rycroft 400 feet east of road allowance along east boundary of sec 14-71-8. No 398-H Elevation 2,332 636

Public school. Tablet in front of west concrete foundation wall, 2 feet 6 inches north of north wall of porch at main entrance and 5 feet below woodwork. No 399-H Elevation 2,402 206

Concrete bench-mark pier 3 miles west of station 5 feet north of northerly limit of right of way and between seventh and eighth poles east of mile post 68 from Rycroft 133 feet west of road allowance along east boundary of sec 19-71-8. Tablet in top of pier. No 400-H Elevation 2,406 187

See Damdale and Husken

Westlock; N A Ry. Concrete bench-mark pier 2 miles north of station, 3 feet east of westerly limit of right of way, 63 feet north of seventh pole north of mile post 54 from junction with C N Ry, midway between Govern-

ment telephone poles Nos 1-2022 and 1-2023 and 400 feet north of road allowance along north boundary of sec 9-60-20. Tablet in top of pier. No. U-13. Elevation 2,089-346.

See Picardville and Pibroch.

Wetaskiwin: C P Ry Concrete bench-mark pier, 4 miles northeast of station, 3 feet south of northerly limit of right of way and at mileage 91 3 from Hamsley, 200 feet east of road allowance along east boundary of sec 29-46-23 and opposite residence on Justamore's stock-farm. Bolt set vertically. No 678-C. Elevation 2,458 188

Bank of Montreal, at northeast corner of Pearce and McDonald Streets. Front or south stone foundation wall, 2 feet from southwest corner and 2 feet 4 inches below brickwork. Bolt set horizontally. No H-42. Elevation 2,497-262.

Post office. Front or south stone foundation wall, midway between westerly entrance and letterdrop and 2 feet 8 inches below brickwork. Bolt set horizontally. No 679-C. Elevation 2,497 434

Court-house. Front or north stone foundation wall 12 feet from northwest corner and in first course above basement window sills. Bolt set horizontally. No 680-C. Elevation 2,493 452

Concrete bench-mark pier 2 miles northwest of station, 5 feet southwest of northerly limit of right of way, 40 feet southeast of sixth pole northwest of mile post 59 from Red Deer and 70 feet northwest of road allowance along east boundary of sec 28-46-24. Bolt set vertically. No 681-C. Elevation 2,498-909.

See Gwynne, Navarre, and Millet.

Whiteslaw: N A Ry Iron pipe with brass cap. 3½ miles east of station, 3 feet south of northerly limit of right of way, 80 feet east of sixteenth pole west of mile post 81 from Winagami and 100 feet east of road allowance along east boundary of sec 16-82-28. No 453-H. Elevation 2,173 314

Iron pipe with brass cap ½ mile east of station 3 feet north of southerly limit of right of way 17 feet east of sixth pole east of mile post 84 from Winagami and 200 feet west of road allowance along east boundary of sec 15-82-1. No 454-H. Elevation 2,198-421

Iron pipe with brass cap at a shallow cut, 1½ miles west of station 3 feet south of northerly limit of right of way 35 feet east of first pole west of mile post 86 from Winagami and 200 feet easterly from road allowance along north boundary of sec 8-82-1. No 455-H. Elevation 2,168 231

See Brownvale and Bluesky

Whitlow: C P Ry Large boulder 2 miles west of station and 200 feet east of mile post 27 from Dunnure, 400 feet westerly from a road crossing and 120 feet south of southerly limit of right of way in centre of west face of boulder 6 inches above ground. Bolt set horizontally. No 178-C. Elevation 2,762-900

Bolt has been removed but hole is still distinct

See Winifred and Sevenpersons

Wildwood: C N Ry Concrete bench-mark pier, 2½ miles east of main corners, 4 feet north of southerly limit of Edmonton-Jasper highway, 1 mile west of C N Ry crossing 150 feet east of a clearing and 25 feet west of seventeenth pole west of a private road to the south which is immediately west of a small bridge and opposite the west end of a trestle on C N Ry. North face of pier. Bolt set horizontally. No. 73-H. Elevation 2,886-936.

See Evansburg and Leeman.

Wilson; C.P.Ry. Concrete bench-mark pier, $\frac{1}{2}$ mile northwest of station, 5 feet northeast of southwest limit of right of way, 18 feet northwest of third pole northwest of mile post 93 from Manybernes and 2,200 feet southeast of road allowance along north boundary of sec 32-7-20. Northwest face of pier bolt set horizontally No. 201-C Elevation 3,046.599.

See Lethbridge and Stirling

Winnifred; C.P.Ry. Oddfellows' hall, frame building about 300 feet west and 300 feet north of the station, in west concrete foundation wall 6 feet from southwest corner and 16 inches below woodwork bolt set horizontally No. 176-C Elevation 2,724.223.

Concrete bench-mark pier $\frac{1}{2}$ miles west of station and 560 feet west of mile post 34 from Dunmore, 4 feet north of southerly limit of right of way, bolt set horizontally in north side of pier No. 177-C Elevation 2,697.865.

See Whotsa and Bow Island

Woking; N.A.Ry. Iron pipe with brass cap, 1 mile north of station, 3 feet east of westerly limit of right of way and at first pole north of mile post 12 from Rycroft, about 900 feet southerly from road allowance along east boundary of sec 24-76-6. No 381-H Elevation 2,197.520

Iron pipe with brass cap, $\frac{1}{4}$ miles south of station, 47 feet east of track and 82 feet north of tenth pole south of mile post 14 from Rycroft, near the north end of a cut No. 382-H Elevation 2,256.169

See Esher and Brackburn.

Wolf Creek; C.N.Ry. See Yates, B.M. No. 80-H

Woodhouse; C.P.Ry. schoolhouse (Hoosier S.D. No. 1677), $\frac{1}{2}$ miles north of station and 200 feet east of railway Rear or north concrete foundation wall, 4 feet 10 inches from northeast corner and 3 inches below woodwork Bolt set horizontally No. CC-14 Elevation 3,292.023

See Claresholm and Nolan

Yates; C.N.Ry. Steel trestle bridge over McLeod River, $\frac{1}{2}$ miles east of station, in south end of east face of west concrete abutment, 6 feet 8 inches above bridge seat, bolt set horizontally No. 80-H Elevation 2,874.859.

See Carrot Creek and Edson

Yelger; C.N.Ry. See Ryley, B.M. No. 48-H

Yellowhead; C.N.Ry. Short deep curved rock cut, 1 mile southwest of station and 10 feet west of fourteenth pole east of mile post 19 from Jasper North side of cut, 135 feet from east end Bolt set horizontally No. 110-H Elevation 3,700.641

See Desnoye

Youngstown; C.N.Ry. Concrete bench-mark pier, 1 mile northeast of station and 13 feet east of tenth pole west of mile post 103 from Kandersley, 113 feet east of a private crossing, 916 feet westerly from road allowance along east boundary of sec 8-30-9 and 1 foot south of northerly limit of right of way, tablet in top of pier No. S-99 Elevation 2,521.057

See Scatfield and Dohson.

PART II

SECONDARY LEVELS—TOWNSHIP OUTLINE LEVELS —LEVELS RUN DURING RETRACEMENT SURVEYS— LEVELS ALONG TRAVELED ROUTES

EXPLANATION OF TABLES

All bench marks, unless otherwise described, are the standard 2-inch p.p. with brass cap, the top appearing 4 to 10 inches above ground. All such bench marks are placed on the south or west sides of the road allowances, except in a few cases especially noted. Where the road allowance is not fenced, bench marks have sometimes been placed in the line of telephone poles.

Where a base line or outline of a range is noted in bold face type in the right-hand column of a list, it indicates that a line of levels along such base line or outline is there intersected.

"The line" means the line originally surveyed, that is, the south or west side of the road allowance.

The notation (R) after the number of a bench mark means that the latter consists of a 3-inch iron pipe with brass cap, placed by Reclamation Service within a few feet of the corner.

The notation (I) signifies a bench mark established by an old Irrigation Survey and generally consists of a square iron post which was used by Reclamation Service previous to the year 1911.

All distances and offsets are in feet.

FOURTH MERIDIAN

Townships 1 to 60
Levelled by various surveyors in 1914 to 1922.

Tp.	Sec.	Distance from N.E. cor.	Elevation feet	B.M. No.	Remarks
1	1		2,807.29	1	Top of International Boundary monument No. 324. About 1/5 mile E. of this meridian.
2	25	714.8	2,927.02	6	24 ft. W. of W. side of road; mark on boulder.
2	1	14 N	2,946.18	8	8 ft. W. of W. side of road, mark on boulder.
2	13	234.8	2,968.15	280	
2	26	8 N	2,011.33	451	(R) First correction line.
3	13	8235.8	2,008.44	284	
2	25		2,019.09	7-101	See Altawas, Publication No. 22.
2	26	4 W	2,072.25	454	(R).
4	13	820.8	3,273.00	280	
2	26	near	2,845.02	455	(R) Second base line.
5	24	1 N	3,475.72	456	(R).
2	26	1 N	3,618.76	457	(R).
6	13	74 W	3,846.94	32	33 ft. S. of N. bdy. of sec.; mark on boulder.
2	26	103 N	4,007.62	36	33 ft. W. of W. side of road, mark on boulder.
7	24				No permanent B.M.'s in this township.
2	24	4 N	4,470.25	485	(R) Distance is from E. 1/2 cor.
2	26	205 W	3,811.20	135	Third base line.
9	13	33.8	3,298.55	277	210 ft. W. of a witness post.
2	26	3 N	3,117.60		(R).
10	13	214 N	3,012.31	272	
2	26	703 N	2,724.52	270	
		near	2,670.10	130	(I).

Tp.	Set	Distance from NE. cor.	Elevation feet	B.M. No.	Remarks
11	12	260 N	2,582 75	265	
	34		2,419 88	153C	See Canainga, Publication No. 22.
	35	1 S	2,444 10	129	(1),
	36	3 N	2,444 48	429	(2).
12	13	260 S	2,438 27	264	
	35	190 N	2,432 20	72	
13	13	260 N	2,371 79	257	
	35	231 N	2,382 08	254	
14	13	260 S	2,440 12	251	
	35	190 S	2,594 95	34	
15	13	254 S	2,627 08	247	
	35	190 S	2,527 34	80	
16	13	259 N	2,630 21	244	
	35	190 S	2,672 24	90	
17	12	267 N	2,515 17	240	
	35		2,479 67	237	
18	13	260 S	2,443 24	234	
	35	242 N	2,432 11	231	
19	13	190 S	2,443 74	110	
	35	269 N	2,403 36	51	
20	13	253 S	2,374 05	908	
	35	190 N	2,384 08	119	
21	25	190 N	2,292 94	124	
22	25	190 S	2,222 81	129	
23	13		1,977 79	132	On N. side of Railway Avenue, 62 ft. W. of W. side of Center Street, Empress. Could not be located in 1947
	13		1,971 67	366D	See Empress.
	13		1,973 31	135	On E. bdy. sec. 12, and 97 ft. N. of centre of C.P. Ry. track, Empress. Could not be located in 1947
24	13	46 N	2,212 65	138	Mark on boulder. In poor condition.
	35	190 S	2,381 85	41	Seventh base line.
25	12	237 S	2,480 02	224	
	35		2,381 22	627C	See Sibbald.
	35		2,475 23	628C	See Sibbald.
26	13	232 S	2,411 98	219	
	35		2,385 25	629C	See Sibbald.
	35	near	2,325 56	1080	(R) Could not be located in 1947
27	13	262 S	2,325 09	215	
	35		2,295 23	630C	See Sibbald.
28			2,325 78	8-75	See Sibbald.
			2,275 30	631C	See Sibbald.
29	26	3 E	2,394 47	1081	Eighth base line.
	35		2,288 55	632C	See Sibbald.
30	13	23 N	2,405 96	166	3 ft. E. of W. side of road, mark on boulder Could not be located in 1947.
	35		2,310 08	633C	See Sibbald.
31	26	3 E	2,388 49	1082	(R) Could not be located in 1947.
	35		2,327 68	634C	See Compeer. Could not be located in 1947
32	35	near	2,349 07	1083	(R).
33	1	30 S	2,329 54	635C	See Compeer.
	35		2,290 06	636C	See Compeer. Could not be located in 1947
34	26	3 E	2,309 75	1084	(R).
	35		2,285 55	637C	See Compeer. Could not be located in 1947.
35	26		2,324 37	640C	See Compeer.
	35	262 N	2,320 47	127	Ninth base line.
36	13	262 S	2,314 83	46	See Compeer. Could not be located in 1947
	35	261 S	2,325 60	128	
37	24	7 SW	2,426 60	137	Highest point on boulder.
	35	264 S	2,304 80	139	
38	13	261 S	2,416 97	261	
	35	260 S	2,372 34	264	

Tp.	Sec.	Distance from NE. cor.	Elevation feet	B.M. No.	Remarks
36	13	337 S	2,391 61	207	
	36	384 S	2,369 57	210	Tenth base line.
37	13	266 S	2,218 80	213	
	36	361 N	2,142 37	217	
38	13	267 N	2,207 26	220	
	36	321 N	2,179 80	223	
39	13	193 N	2,212 26	226	
	36	422 S	2,245 34	221	
40	13	271 S	2,169 06	224	
	36	200 S	2,200 88	227	Eleventh base line.
41	24	st cor	2,146 33	241	Top of sec. iron post.
	36	346 N	2,055 51	243	Top of witness iron post.
42	25	193 N	2,051 50	247	Distance is from E. 1/4 cor.
	43		2,014 11	29H	See Butte.
	13	15 E	2,116 64	290	8 ft. N. of sec. line, highest point of boulder.
44	1	193 N	1,963 23	294	
	13		1,910 41	296	Top of iron road survey post.
	36	243 S	2,003 77	1	Twelfth base line.
45	1	193 N	1,770 96	280	
46	1	193 N	2,031 04	285	
47	13	193 N	2,074 10	272	Distance is from E. 1/4 cor.
48	36	193 N	2,49 94	281	Thirteenth base line; 10 ft. W. of sec. line.
50	1		2,126 27	B. 3	See Lloydminster.
	36	193 N	2,076 88	294	
51	36	193 S	2,006 51	299	
52	36	264 N	2,032 96	304	Fourteenth base line.
53	36	193 N	2,006 47	308A	
55	1	11 S	1,956 17	B. 15	Distance is from SE. cor.; small iron pipe.
	36	402 S	2,162 73	310	Top of witness iron post.
56	36	146 W	2,175 61	310	Fifteenth base line.
57	36	st cor	2,219 79	321	Top of township corner post.
58	36	726 S	1,656 51	343	Top of witness iron post.
60	36	290 W	1,776 71	172	Sixteenth base line.

FIRST CORRECTION LINE WEST OF FOURTH MERIDIAN

North Boundary of Township 2, Range 1 to 17

E. W. Berry, D.L.S., in year 1924

Reg.	Sec.	Distance from NE. cor.	Elevation feet	B.M. No.	Remarks
1	36	6 N	2,011 32	451	(R) Fourth meridian.
	295 E		2,076 48	8	On N. side of road.
2	36	326 W	2,056 57	5	
	1	near	2,026 41	452	(R) Tp. 3, near SE. cor. sec. 1.
	291 W		2,011 39	10	
3	1	near	2,026 42	451	(R) Tp. 3, near SE. cor. sec. 1.
	318 W		2,056 21	15	
4	36	303 W	2,153 75	16	
	311 W		2,222 89	22	On N. side of road.
5	36	309 W	2,146 55	25	East outline of range 5.
	293 W		2,026 91	29	
6	36	225 W	2,052 26	33	
	294 W		2,224 48	36	On N. side of road.
7	36	294 W	2,223 12	39	
	1	st cor	2,341 11	(1)	Top of iron post at SE. cor. sec. 1, tp. 3.
	305 W		2,988 54	42	

FIRST CORRECTION LINE WEST OF FOURTH MERIDIAN Concluded

North Boundary of Township 2, Ranges 1 to 17 Concluded

Rge.	Sec.	Distance from NE. cor.	Elevation feet	B.M. No.	Remarks
8	1	near	2,975 23	459	(R) Tp. 3, near SE. cor. sec. 1
	23	220 W	2,951 68	48	
9	1	near	2,975 90	472	(R) East outline of range 9. Tp. 3, near SE. cor. sec. 1.
	23	220 W	2,905 25	94	
10	1	near	2,973 20	478	(R) Tp. 3, near SE. cor. sec. 1
	23	272 W	2,968 28	90	
11	1	near	2,980 65	1180	(R) Tp. 3, near SE. cor. sec. 1
	23	270 W	3,104 99	97	
12	1	near	3,122 14	738	(R) Tp. 3, near SE. cor. sec. 1
	23	270 W	3,117 11	73	
13	1	near	3,041 35	622	(R) East outline of range 13, tp. 3 near SE. cor. sec. 1.
	23	250 W	3,058 83	79	
14	23	250 W	3,058 47	82	
	23	250 W	3,132 84	85	
15	1	near	3,072 83	509	(R) Tp. 3, near SE. cor. sec. 1
	23	260 W	3,207 67	92	
16	1	near	3,449 83	519	(R) Tp. 3, near SE. cor. sec. 1
	23	270 W	3,610 76	98	
					Canadian Pacific Railway crosses.
17	23	343 W	3,467 13	2120	See Milk River
			3,520 04	102	East outline of range 17.
	1		3,588 25	286	(I) Tp. 3, near SE. cor. sec. 1, top of squared iron post.

SECOND BASE LINE WEST OF FOURTH MERIDIAN

North Boundary of Township 4, Ranges 1 to 30

Retracement Survey in 1917 and 1918

Rge.	Sec.	Distance from NE. cor.	Elevation feet	B.M. No.	Remarks
1	26	near	3,345 03	455	(R) Fourth meridian.
	23	250 W	3,267 67	5	
2	26	near	3,373 48	492	(R)
	23	270 W	3,521 69	10	
3	26	near	3,571 67	465	(R)
	23	250 W	3,560 03	17	
4	24	270 E	3,429 18	21	
5	26	240 W	3,195 83	25	East outline of range 5.
	23	1118 E	3,112 62	20	
6	24	260 E	3,081 71	34	
7	26	near	3,845 43	468	(R)
	23	420 E	2,816 40	41	
8	26	near	2,880 13	474	Pokewki Lake crosses.
	23	240 E	2,953 68	44	(R) East outline of range 9.
10	26	near	2,987 83	479	Probably within 300 ft. E.
	23	220 E	3,048 99	49	(R)

SECOND BASE LINE WEST OF FOURTH MERIDIAN—Concluded

North Boundary of Township 4, Ranges 1 to 30—Concluded

Rgr	Sec.	Distance from N.E. cor.	Elevation feet	B.M. No.	Remarks
11	36	near	3,036.56	453	(R)
	36	204 W	3,034.34	54	
12	36	near	3,031.73	460	(R)
	36	275 W	3,037.55	59	
13	36	near	3,034.25	424	(R) East outline of range 13.
	36	195 W	3,039.10	63	
	31	near	3,015.03	502	(R)
14	36	195 E	3,041.45	65	
15	36	near	3,035.71	511	(R)
	36	320 W	3,036.06	67	
16	36	near	3,125.27	520	(R)
17	36	near	3,246.63	236	(1) Top of squared iron post. Could not be located in 1944-45. (2) East outline of range 17. Could not be located in 1944-45.
	36	near	3,246.60	529	(3) S. 1/2 S. of the line, mark on boulder
18	36	105 E	3,167.35	69	(R)
	36	near	3,207.23	542	
	36	320 E	3,205.56	238-C	See McNab.
	36	320 W	3,233.36	71	On N. side of road, mark on sandstone boulder about 4 cu. ft.
19	36	76 E	3,282.30	72	On N. side of road, mark on granite boulder.
	36	84 W	3,401.39	73	14 ft. N. of the line, mark on granite boulder about 16 cu. ft.
	31	285 W	3,423.20	74	
20	36	232 W	3,532.07	75	
21	36	205 W	3,700.96	76	
	36	near	3,680.65	571	(R)
22	36	285 E	3,507.20	77	
	36	1663 E	3,355.41	78	Distance is from N. 1/2 cor; 18 N. E. of the line, mark on N.E. cor. of boulder about 18 cu. ft.
	31	485 W	3,453.21	79	
23	36	244 W	3,537.34	80	
24	36	241 W	3,604.82	81	.9 ft. N. of the line.
25	36	1231 W	3,655.70	82	9 ft. W. of W. side of main trail, and about 48 ft. N. of the line. (In Indian Reserve.)
26	36	429 E	3,534.04	83	905 ft. S. of the line, mark on quartz rock about 20 cu. yds.
27	36	210 W	3,615.07	84	
	36	1230 W	3,272.27	85	.6 ft. N. of the line, mark on quartzite boulder about 12 cu. ft.
28	36	195 E	3,535.76	86	East outline of range 28.
	36	2075 E	3,906.56	87	Mark on boulder about 7 cu. ft.
	32	215 W	4,188.57	88	
29	36	209 W	4,218.87	89	
	36	420 W	4,318.92	90	10 ft. N. of the line, mark on granite boulder about 2 cu. yds.
30	36	377 W	4,420.75	91	About 4½ miles E. of fifth meridian.
1	36	684 E	5,160.95	92	Fifth meridian; 274 ft. S. of the line, mark on quartzite boulder about 5 cu. yds.

THIRD BASE LINE WEST OF FOURTH MERIDIAN

North Boundary of Township 8, Ranges 1 to 16

Levelled by N. S. Closter, D.L.S., in 1918

Rgn.	Sec.	Distance from NE cor.	Elevation feet	B.M. No.	Remarks
1	36	265 W	3,811.30	155	Fourth meridian.
	35	273 E	3,790.45	155	
2	36	266 W	4,016.66	149	
	35	273 W	4,041.97	145	
3	36	265 W	3,986.90	141	
	35	269 E	3,983.12	137	
4	36	269 E	3,807.76	134	
	35	151 E	3,618.97	131	
5	36	246 E	3,471.90	127	
	34	263 W	3,488.21	123	Distance is from N. $\frac{1}{2}$ cor.
6	36	255 E	3,248.33	119	
	35	250 W	3,255.19	116	
7	36	301 W	3,153.98	113	
	35	273 E	3,041.18	109	
8	36	229 W	2,743.41	106	
	35	280 E	2,445.00	103	
9	36	312 W	2,662.74	90	East outline of range 9.
	35	316 W	2,647.81	96	Could not be located in 1947
10	36	286 W	2,803.47	98	May be covered by drifted soil.
	35	227 W	2,844.74	90	Could not be located in 1947
11	36	near	2,746.16	487	(R) Cap gone but pipe in good condition.
	35	275 W	2,703.63	84	
12	36	near	2,687.39	483	(R) Could not be located in 1947
	35	291 W	2,681.44	79	
13	36	near	2,712.61	492	(R) East outline of range 13.
	35	234 W	2,713.09	72	
14	36	near	2,767.67	505	(R) Could not be located in 1947
	35	249 E	2,767.65	67	
15	36	near	2,803.26	515	(R)
	35	246 E	2,803.03	61	
16	36	near	2,718.41	526	(R)
	35	262 W	2,768.29	56	May be covered with drifted soil.
17	36	near	2,777.24	532	(R) East outline of range 17.

THIRD BASE LINE WEST OF FOURTH MERIDIAN

North Boundary of Township 8, Ranges 29 to 30

Levelled during re-enactment survey in 1918.

Rgn.	Sec.	Distance from NE cor.	Elevation feet	B.M. No.	Remarks
29	36	60 E	4,062.68	19	East outline of range 29. 791 ft. N. of the line and on the E. side of the road allowance, running north, mark on boulder 4 ft. by 2 ft. and 1 $\frac{1}{2}$ ft. above ground.
	34	61 E	4,058.82	17	125 ft. N. of the line, and 5 ft. W. of the E. side of the road allowance running north, mark on boulder 3 ft. by 2 ft. and 6 ins. above ground.

THIRD BASE LINE WEST OF FOURTH MERIDIAN—Concluded

North Boundary of Township 8, Ranges 1 to 10—Concluded

Rgn.	Sec.	Distance from NE cor.	Elevation feet	B.M. No.	Remarks
29	32	248 E	4,440-68	15	213 ft. N. of the line, mark on quartzite boulder, 7 ft. by 8 ft. and 3 ft. above ground.
30	26	566 E	4,044-15	13	48 ft. S. of the line; mark on limestone outcrop 11 ft. by 7 ft. and 136 ft. above ground.
1	26	117 E	5,200-75	11	51st meridian, 163 ft. N. of the NE cor. sec. 36, on the 5th meridian, and 51 ft. E. of the E. side of the road allowance running north; mark on sandstone boulder.

FOURTH BASE LINE WEST OF FOURTH MERIDIAN

North Boundary of Township 12, Ranges 1 to 20.

Ranges 1 to 20, levelled by E. W. Berry, D.L.S., in 1921.

Ranges 20, 20, levelled during Recountment Survey in 1935.

Rgn.	Sec.	Distance from NE cor.	Elevation feet	B.M. No.	Remarks
1	26	152 N	2,420-20	72	Fourth meridian.
	22	270 W	2,413-58	158	
2	26	421 E	2,521-95	150	
	22	270 W	2,656-85	157	
3	26	286 E	2,597-89	152	
	22	266 W	2,616-85	150	
4	26	319 W	2,462-40	177	
	22	507 W	2,508-57	174	
5	26	304 W	2,283-90	171	
	22	818 E	2,451-69	167	Could not be located in 1947
			2,317-25	168C	See Dunmore.
			2,182-74	167C	See Medicine Hat.
6	26	187 S	2,236-60	159	47 ft. N. of C.P Ry

Between B.M.'s 159 and 118 the levels ran a considerable distance to the north of the base line.

7	13	366 N	2,427-94	151	Tp. 13. In present fence line which is about 11 ft. W. of the sec. line.
	21	310 W	2,629-82	148	Tp. 13.
8	24	366 E	2,670-27	142	Tp. 13. On N. side of road. Could not be located in 1947.
	21	336 E	2,616-73	120	Tp. 13.
9	24	411 W	2,558-90	126	Tp. 13. East outline of range 9.
	21	390 W	2,514-64	123	Tp. 13.
10	13	428 N	2,526-01	128	Tp. 13.
	9	380 N	2,538-97	124	Tp. 13. On N. side of road.
11	13	705 E	2,500-11	121	Tp. 13.
	26	274 N	2,519-75	118	Tp. 13. On E. side of road.
	23	300 E	2,488-01	115	
12	26	366 E	2,518-85	112	
	23	630 E	2,508-67	109	
	23		2,520-75	108	On downstream side of highway and fence bridge over Bow River, on right bank, 5 ft. from second wooden trestle of the approach from first concrete bridge pier.

FOURTH BASE LINE WEST OF FOURTH MERIDIAN—Concluded

North Boundary of Townships 12, Ranges 1 to 30—Concluded

Rge.	Sec.	Distance from N.E. cor.	Elevation, feet	B.M. No.	Remarks
13	26	379 E	2,525.59	102	
	26	385 E	2,504.56	99	
14	26	395 E	2,506.37	95	On N. side of road.
	26	395 E	2,500.00	95	
15	26	392 E	2,513.56	99	On N. side of road
	26	370 E	2,580.46	95	
16	26	355 E	2,575.30	95	
	26	345 E	2,560.17	95	
17	26	330 S	2,604.78	27	East outline of range 17.
	26	329 S	2,607.12	289	(R).
	26	340 W	2,614.55	75	
18	26	near	2,654.41	347	(R).
	26	340 E	2,701.86	70	On N. side of road.
19	26	near	2,663.87	555	(R).
	26	345 E	2,720.10	64	
20	26	near	2,750.36	594	(R).
	26	340 E	2,824.64	59	
21	26	341 W	2,829.10	65	
	26	343 W	2,804.52	52	
22	26	345 W	2,185.06	49	(R).
	26	370 E	2,204.89	45	(R).
23	26	near	2,273.37	592	(R).
	26	360 W	2,110.47	49	
	26	near	2,081.62	720	See Carmangay.
24	26	near	2,125.42	567	(R).
	26	300 W	2,155.78	231	Could not be located in 1947
25	26	near	2,190.47	593	(R) Could not be located in 1947
	26	364 E	2,164.69	28	
26	26	near	2,231.18	595	(R) Could not be located in 1947
	26	360 W	2,304.03	23	
27	26	356 E	2,371.46	19	Could not be located in 1947
	26	352 S	2,392.52	CC-13	See Clareholm.
28	26	355 E	2,412.24	15	
29	26	307 E	2,359.09	11	
	26	360 W	2,386.72	6	On N. side of road
29	26	2	2,729.96	2	East outline of range 29, 142 ft. E. of the east side of Canyon Lake.
	26	194 W	4,344.79	43W 220 ft. N. of the line, mark on sandstone outcrop about 3 ft. by 2 ft.	
	26	43 E	4,080.66	43W 85 ft. S. of the line, mark on granite boulder 2 ft. by 2 ft. and 1 ft. above ground.	
30	26	1138 E	4,503.46	43W Distance is from N. N.E. cor.; mark on limestone boulder 3 ft. by 3 ft. and 1 ft. above ground.	
30	26	854 E	5,068.85	43W 6 ft. S. of the line, mark on limestone outcrop 2 ft. by 2 ft. level with ground. About $\frac{1}{4}$ mile E. of fifth meridian.	
1	26	717 N	5,483.72	43W Fifth meridian, 3 ft. E. of W. side of road allowance, mark on sandstone outcrop 4 ft. by 2 ft., level with the ground.	

FIFTH BASE LINE WEST OF FOURTH MERIDIAN

North Boundary of Township 16, Ranges 1 to 30

Levelled by R. H. Montgomery, D.T.S., in 1920.

Rge.	Sec.	Distance from NE cor	Elevation feet	B.M. No.	Remarks	
1	30	108 S.	2,672 24	90	Fourth meridian.	
	32	210 E.	2,645 61	40		
2	30		2,685 80	41	323 ft. W. of W. side of slough at NE. —	
	32	262 W.	2,685 80	42		
3	30	212 W.	2,670 55	44		
4	30	648 W.	2,648 90	48	Distance is from N. $\frac{1}{4}$ cor	
	32	271 W.	2,437 68	47		
5	30	554 E.	2,685 95	45		
	32	476 W.	2,680 57	50		
6	30	231 W.	2,443 88	61		
	32	631 E.	2,347 87	62		
7	30	305 W.	2,460 90	63		
	32	245 W.	2,450 68	55		
8	30	275 W.	2,475 67	54		
	32	204 E.	2,540 62	57	Distance is from N. $\frac{1}{4}$ cor.	
9	30	268 W.	2,511 36	58	East outline of range 9.	
	32	229 E.	2,548 41	60		
10	30	364 W.	2,485 59	61		
	32	329 E.	2,433 30	62		
11	30	252 S.	2,443 72	63		
	32	208 E.	2,455 89	65		
12	30	463 E.	2,424 63	66	East outline of range 12.	
			2,481 66	521D	See Tilley.	
	32	242 W.	2,458 18	67		
13	30	255 E.	2,461 85	68	Could not be located in 1947.	
	32	206 W.	2,455 71	70	$"$ " " " " "	
14	30	253 E.	2,428 84	71	$"$ " " " " "	
	32	252 W.	2,451 35	72	$"$ " " " " "	
15	30	350 W.	2,348 77	73		
	32	302 W.	2,528 21	75		
16	30	373 E.	2,523 77	76		
	32	373 E.	2,509 39	77		
17	30	514 W.	2,511 27	78	East outline of range 17.	
	32	273 E.	2,542 30	80		
18	30	450 E.	2,626 87	81		
	32	315 E.	2,702 91	82		
19	30	near	2,679 07	529	(R).	
	32	205 W.	2,685 30	83		
20	30	410 E.	2,735 97	85		
	32	203 E.	2,518 61	86		
21	30	near	2,601 00	566	(R).	
	32	501 W.	2,647 47	87		
22	30	309 E.	2,649 39	88		
	32	273 E.	2,914 29	90		
23	30	509 E.	2,979 79	91	Could not be located in 1947.	
	32	213 W.	2,264 93	92	$"$ " " " " "	
24	30	256 W.	3,160 04	93	$"$ " " " " "	
	32	343 W.	2,229 94	95	$"$ " " " " "	
25	30	477 E.	2,345 60	96		
	32	290 E.	2,395 10	97		
			2,440 30	632D	See Vulcan.	
26	30	388 E.	2,441 29	98		
	32	265 E.	2,515 77	100	Could not be located in 1947.	
27	30	457 E.	2,382 42	101		
	32	364 W.	2,380 23	102		
			2,279 87	103	Could not be located in 1947.	
	32	359 W.	2,347 35	105	$"$ " " " " "	

FIFTH BASE LINE WEST OF FOURTH MERIDIAN—Concluded

North Boundary of Township 16, Range 1 to 30—Concluded

Rgn.	Sec.	Distance from NE cor.	Elevation feet	B.M. No.	Remarks
28	36	673 E	3,382 40	106	Could not be located in 1947
	35	488 E	3,387 14	107	" " " " "
	34	293 E	3,379 16	108	" " " " "
29	36	640 W	3,434 90	109	CC-5 Could not be located in 1947
	35	395 W	3,405 90	111	" " " " "
30	36	228 E	3,072 60	112	About 1 mile E. of 5th meridian.
1	12	350 S	3,649 12	603	Fifth meridian, Township 17.

SIXTH BASE LINE WEST OF FOURTH MERIDIAN

North Boundary of Township 20, Range 1 to 11

Levelled by C. A. R. Lawrence, D.L.S., in 1922.

Rgn.	Sec.	Distance from NE cor.	Elevation feet	B.M. No.	Remarks
1	36	106 N	2,384 00	110	Fourth meridian.
	35	287 W	2,272 01	71	
2	36	290 W	2,397 60	68	

A spur line was run from NE cor. sp. 30, rgn. 2, north and east to fourth meridian at NE cor. sp. 22.

2	12	290 S	2,342 65	5	Tp. 21
	35	292 S	2,342 99	6	Tp. 21
2	12	294 S	2,269 28	9	Tp. 22
1	31	291 W	2,304 68	15	Tp. 22
	35	195 S	2,220 61	129	Tp. 22. Fourth meridian.

Continuing west along the 6th Base Line.

2	38	260 W	2,410 95	65	
3	35	262 E	2,391 25	61	
	36	341 W	2,164 16	58	
4	36	277 W	2,230 03	56	
	35	279 W	2,303 70	53	
5	36	266 W	2,429 74	49	On N. side of road.
6	12	299 S	2,270 34	50	Tp. 21.
	35	268 W	2,256 44	248D	Sec. Cavendish.
5	35	268 W	2,512 48	65	Tp. 20.
6	35	256 E	2,544 15	42	
7	35	261 W	2,658 75	50	
7	36	256 W	2,657 58	45	
8	35	242 W	2,526 97	52	
8	36	236 E	2,612 41	29	
9	35	232 W	2,498 50	55	
9	36	234 E	2,494 84	22	
9	34	294 E	2,494 95	20	
			2,478 37	366D	See Jenner.

SIXTH BASE LINE WEST OF FOURTH MERIDIAN Concluded

North Boundary of Township 20, Range 1 to 11—Concluded

Reg.	Sec.	Distance from NE. cor.	Elevation feet	R.M. No.	Remarks
10	20	278 E	2,433 53	17	
	23	294 W	2,433 48	14	
	31	296 W	2,431 67	11	
11	24	139 E	2,439 90	7	Larrea diverted 3 miles south to avoid Dead Lodge Canyon
	21	200 W	2,457 11	8	
12	1	237 N	2,439 72	305	East outline of range 12.

SEVENTH BASE LINE WEST OF FORTY-SECOND MERIDIAN

North Boundary of Township 24, Boxes 12 to 28

Levelling by J. B. Alexander, D.L.S., in 1919.

Reg.	Sec.	Distance from NE cor.	Elevation Feet	R.M. No.	Remarks
12	35	200 N	2,387.16	973	
	35	600 W	2,419.31	121	
13	35	200 E	2,384.29	122	
14	35	204 E.	2,416.23	121	
	35	near	2,424.26	117	Highest point on boulder.
15	35	400 W	2,418.73	114	
	34		2,411.46	109	At the SW cor. of a cornel, and 175 ft. SE. of house in Bl. 1/4 sec. 3-22-15.
16	36	301 E	2,457.55	102	
	36	7 N.E	2,453.74		C.P. Ry. Natural Resources B.M., iron pipe with squared top.
	31	30 W	2,623.12	98	Highest point on granite boulder, 90 ft. S. of the line.
17	35	235 W	2,676.22	97	
	35	21 E	2,765.39	91	Distance is from N. 1/4 cor. highest point of red granite boulder in middle of road allowance.
18	35	240 W	2,662.87	83	
	35	27 E	2,854.44	77	Distance is from N. 1/4 cor., highest point of red granite boulder
19	35	235 W	2,904.70	76	
	35	235 E	2,863.21	70	
20	34	135 E	2,949.55	63	
21	35	102 E	2,814.58	61	
	35	94 E	2,828.21	58	
			2,873.89	206D	In poor condition See Standard.
22	34	287 W	2,873.10	53	
23	35	135 E	2,830.41	48	
24	35	near	2,056.29	107	(1) Iron post with squared top.
	34	245 W	2,043.65	38	
25	35	237 E	2,118.42	34	Could not be located in 1947
	35	209 E	2,089.04	29	" " " " "
26	34	415 E	2,120.96	20	" " " " "
27	35	180 E	2,109.56	22	" " " " "
	35	420 W	2,152.40	8-158	See Lyalta.
	35	420 W	2,223.41	16	Could not be located in 1947

SEVENTH BASE LINE WEST OF FOURTH MERIDIAN—Concluded

North Boundary of Township 24, Ranges 12 to 29—Concluded

Rng.	Sec.	Distance from NE. cor.	Elevation, feet	B.M. No.	Remarks
29	30	near	3,548.35	46	(I) Iron post with squared top, about $\frac{3}{4}$ mile E. of Fifth meridian.
1	30	303 W 330 S	3,548.75 3,556.49	7 558	Fifth meridian. Could not be located in 1917.

NINTH BASE LINE WEST OF FOURTH MERIDIAN

North Boundary of Township 22, Ranges 1 to 29

Leveled during Retracement Survey in 1915.

Rng.	Sec.	Distance from NE. cor.	Elevation, feet	B.M. No.	Remarks
1	30	302 N	2,330.47	187	Fourth meridian.
	30	330 W	2,345.40	344	
2	30	330 W	2,343.14	347	
	30	330 W	2,305.90	350	
3	30	330 W	2,266.11	353	
	30	330 W	2,238.58	356	
4	30	330 W	2,201.30	359	
	30	330 W	2,142.20	362	
5	30	330 E	2,418.03	365	
	30	330 W	2,617.56	369	
6	30	330 W	2,480.38	373	
7	30	330 E	2,445.01	377	
	30	330 W	2,485.50	381	
8	30	330 W	2,471.38	385	
9	30	330 W	2,381.50	389	
	30	330 W	2,530.57	393	
10	30	330 W	2,500.01	397	
11	30	330 E	2,530.01	401	
	30	330 W	2,562.26	405	
12	30	344 S	2,551.80	200	East outline of range 12.
	30	330 W	2,532.51	409	
13	30	330 W	2,607.57	413	
	30	330 W	2,748.50	417	
14	30	330 E	2,652.77	421	
	30	330 W	2,658.38	429	See Hanna.
15	30	330 W	2,667.50	436	
	30	330 W	2,755.51	439	
16	30	330 W	2,718.57	438	
17	30	330 W	2,757.00	437	
	30	330 W	2,801.11	441	
18	30	330 W	2,805.00	445	
19	30	330 W	2,845.54	448	
	30	330 W	2,827.41	453	
20	31	330 W	2,717.74	460	
21	32	330 W	2,790.39	465	
22	34	330 W	2,841.00	469	

NINTH BASE LINE WEST OF FOURTH MERIDIAN—Concluded

North Boundary of Township 32, Range 1 to 29—Concluded

Ego.	Sec.	Distance from N.E. cor.	Elevation feet.	B.M. No.	Remarks
23	36	320 E	2,732-46	473	
	32	320 W	2,847-58	477	Could not be located in 1947.
			2,863-04	53-F	See Trechu.
24	34	195 W	2,962-31	481	In poor condition.
25	36	195 W	2,815-90	485	
	32	264 E	2,961-31	489	
26	34	264 W	2,062-35	493	Could not be located in 1947.
27	36	264 E	2,071-47	497	
28	34	195 W	3,062-32	505	Could not be located in 1947
1	36	320 S	2,289-83	510	Fifth meridian.

TENTH BASE LINE WEST OF FOURTH MERIDIAN

North Boundary Township 30 Range 1 to 15

Levelled by E. W. Berry, D.L.S., in 1922.

Ego.	Sec.	Distance from N.E. Cor.	Elevation Feet.	B.M. No.	Remarks
1	36	324 S	2,269-57	210	Fourth meridian.
	32	327 W	2,252-57	158	On N. side of road.
2	36	318 E	2,261-49	150	On N. side of road.
	32	447 E	2,183-41	146	
3	36	1542 E	2,178-41	143	
	32	326 W	2,185-23	139	
4	24	227 W	2,16-13	134	In rge. 4 the levels run around the south side of Standing Lake.
	21	448 E	2,235-20	131	
5	24	618 N	2,260-27	127	
	23	342 E	2,471-40	121	
6	36	304 W	2,677-49	116	
	23	272 W	2,462-19	113	
7	36	304 W	2,469-11	106	
	23	350 E	2,456-38	104	
8	36	280 E	2,693-60	101	
	23	235 W	2,638-13	97	
9	36	350 W	2,6-23	94	Could not be located in 1947
	23	344 W	2,513-79	90	
10	36	409 E	2,468-42	87	
	23	288 E	2,521-42	84	
11	36	273 E	2,521-62	80	Could not be located in 1947
	23	737 W	2,552-67	77	" " " " "
12	36	282 N	2,626-92	180	East outline of range 12.
	23	295 E	2,629-16	72	Could not be located in 1947.
			2,679-67	E-25	See Fleet.
13	36	373 W	2,706-01	69	
			2,735-47	E-24	See Fleet.
14	36	347 E	2,700-39	65	
14	36	299 W	2,679-79	62	Could not be located in 1947.
	23	315 W	2,687-47	59	" " " " "
15	36	909 E	2,684-39	55	
	23	375 E	2,697-60	52	
16	36	295 W	2,707-68	47	

TENTH BASE LINE WEST OF FOURTH MERIDIAN

North Boundary Township 36, Ranges 23 to 26

Levelled by J. R. Alexander, D.L.S., in 1920.

Rgs.	Sec.	Distance from NE. Cor.	Elevation Feet	B.M. No.	Remarks
23	33	529 W	2,602-07	45	
	34	301 E	2,982-90	45	
			2,980-38	53-5	See Loussana.
24	33	298 E	2,901-91	39	
	33	299 W	2,046-66	36	
25	33	295 E	2,158-34	33	On N. side of road.
	33	245 E	2,081-25	33	
26	33	190 W	2,172-79	25	
	33	135 W	2,188-96	22	
27	33	217 W	2,187-58	18	
	33	517 W	2,136-48	13	Could not be located in 1947
			2,054-18	13	See Penhold.
28	33		2,938-93	6	H-23 578 ft. W. of W. limit of Calgary and Edmonton road and near N. $\frac{1}{4}$ cor. Could not be located in 1947
1	36	205 N	2,663-58	1	Fifth meridian.

ELEVENTH BASE LINE WEST OF FOURTH MERIDIAN

North Boundary of Township 36, Ranges 1 to 25

Levelled by L. O. R. Desnoes, D.L.S., in 1918.

Rgs.	Sec.	Distance from NE. cor.	Elevation Feet	B.M. No.	Remarks
1	33	200 S	2,206-98	257	Fourth meridian.
	34	200 W	2,222-55	42	
2	33	304 E	2,211-22	41	
	33	248 W	2,185-59	40	
3	33	330 W	2,180-08	39	Distance is from N. $\frac{1}{4}$ cor.
	33	338 W	2,209-81	39	" " "
4	34	129 W	2,208-39	37	" " "
5	33	543 E	2,286-84	35	East outline of range 5.
	33	222 W	2,236-37	35	
6	34	407 E	2,290-98	34	
	31	245 E	2,208-96	33	Distance is from N. $\frac{1}{4}$ cor.
7	33	-	2,206-26	33	21 ft. W. of fourth telephone pole E. of N. $\frac{1}{4}$ cor.
8	35	325 W	2,479-27	81	
	31	406 W	2,423-06	30	East outline of range 9.
9	33	63 W	2,659-96	29	Distance is from N. $\frac{1}{4}$ cor.
10	33	574 W	2,352-92	28	
	33	231 W	2,453-44	27	Distance is from N. $\frac{1}{4}$ cor.
11	33	1138 E	2,419-70	26	
12	33	-	-	-	East outline of range 11.
	33	333 W	2,428-61	26	
	31	235 W	2,359-48	24	
13	33	290 W	2,324-04	20	
14	33	282 W	2,335-22	22	
	31	234 W	2,347-05	21	130 ft. W. of a witness post.

ELEVENTH BASE LINE WEST OF FOURTH MERIDIAN—Continued

North Boundary of Township 40, Ranges 1 to 28—Continued

Reg.	Sec.	Distance from NE. cor.	Elevation feet	B.M. No.	Remarks
15	33	665 E	2,368 68	20	
16	35	726 W	2,375 50	19	
	31	459 W	2,415 51	18	
17	36	796 W	2,449 43	17	
	32	826 W	2,492 74	16	
18	34	586 W	2,511 79	15	
19	36	616 E	2,544 31	14	
	32	585 E	2,718 58	13	
					Buffalo Lake crosses 10 ft. north of line.
21	33	634 E	2,575 32	12	Could not be located in 1947
	31	587 E	2,636 29	11	
22	33	571 E	2,600 45	10	
			2,602 57	63	P See Mirror.
23	35	249 W	2,887 41	9	Distance is from N. $\frac{1}{4}$ cor.
	32	599 W	2,908 55	8	" " " " "
24	31	277 E	2,759 83	7	
25	33	587 E	2,854 15	6	Could not be located in 1947
26	35	354 E	2,915 28	5	" " " " "
			2,764 14	4	
	31	217 W	2,844 08	3	H-25 See Lacombe.
27	33	342 E	2,979 37	2	Could not be located in 1947.
28	35	196 W	2,991 04	1	About $\frac{1}{4}$ mile E. of Gulf Lake. Could not be located in 1947

TWELFTH BASE LINE WEST OF FOURTH MERIDIAN

North Boundary of Township 44, Ranges 1 to 28.

Levelled by J. B. Alexander, D.L.S., in 1920

Reg.	Sec.	Distance from NE. cor.	Elevation feet	B.M. No.	Remarks
1	36	243 E	2,063 77	1	Fourth meridian.
	32	305 E	1,988 28	4	
2	36	366 E	2,045 15	9	Distance is from N. $\frac{1}{4}$ cor.
	32	246 W	2,136 18	12	
3	35	278 E	2,141 26	16	
	32	242 E	2,201 50	19	
4	36	227 E	2,368 59	22	On N. side of road.
	32	219 W	2,267 66	26	Distance is from N. $\frac{1}{4}$ corner
5	36	220 W	2,207 29	30	East outline of range 5. Could not be located in 1944-45.
	32	300 W	2,140 04	33	256 ft. W. of a witness post. Could not be located in 1944-45.
6	36	262 E	2,200 08	36	
	32	288 W	2,231 25	38	
			2,237 07	34 H	See Wainwright.
7	36	241 N	2,220 08	42	Could not be located in 1944-45.
	32	218 W	2,231 15	48	
8	36	230 E	2,183 78	49	
	32	580 N	2,231 45	50	

TWELFTH BASE LINE WEST OF FOURTH MERIDIAN—Concluded

North Boundary of Township 44, Ranges 1 to 28—Concluded

Rgn.	Sec.	Distance from N.E. cor.	Elevation, feet	B.M. No.	Remarks
9	36	307 E	2,295.91	67	East outline of range 9.
	33	371 E	2,295.82	70	
10	36	691 E	2,231.82	73	181 ft. W. of road post No. 1, and 680 ft. W. of W. side of small lake
	33		2,143.17	76	
11	36	384 W	2,176.13	80	East outline of range 12.
	33	612 E	2,243.17	83	
12	36	391 W	2,206.41	86	On N. side of road.
	33	285 W	2,243.37	89	
13	36	317 E	2,296.10	92	East outline of range 13.
	33	344 E	2,181.25	96	
14	36	211 E	2,238.14	99	On N. side of road.
	33	404 W	2,272.27	102	
15	36	284 E	2,299.74	105	300 ft. S. of the line, and 47 feet N. of centre of C P Ry track
	33	474 W	2,281.68	109	
16	36	108 W	2,317.37	109	300 ft. S. of the line, and 47 feet N. of centre of C P Ry track
	33	108 W	2,321.94	112	
17	36	294 E	2,306.04	115	Distance is from N. N.E. cor.
	33	281 E	2,317.15	119	
18	36	259 N	2,262.82	122	Could not be located in 1947
	33	237 W	2,247.39	130	
19	36	215 W	2,373.62	138	Distance is from N. N.E. cor.
	33	305 E	2,415.19	140	
20	36	291 W	2,474.75	145	Could not be located in 1947
	33	362 W	2,456.45	149	
21	36		2,456.97	149	See New Norway
	33	205 E	2,516.76	153	
22	36	612 E	2,455.30	156	Could not be located in 1947
	33	337 W	2,532.50	161	
23	36	312 W	2,497.17	164	Distance is from N. N.E. cor.
	33	258 S	2,507.11	167	
24	36	268 W	2,549.39	172	(a) on N. side of road. Could not be located in 1947
	33	355 E	2,581.96	176	
25	36		2,684.55	180	On N. side of road. Could not be located in 1947
	33	246 E	2,607.05	185	
26	36	376 W	2,640.00	186	See Hebbema.
	33	180 W	2,748.94	190	
27	36	379 W	2,781.95	193	Distance is from N. N.E. cor.
	33	641 E	2,804.97	197	
28	36	242 W	2,794.41	200	Fifth meridian.
	33	231 W	2,918.00	204	
1	36				
	33	246 E			

The line of levels here crosses an Indian Reserve.

26	36	376 W	2,640.00	186	Distance is from N. N.E. cor.
33		180 W	2,748.94	190	
27	36	379 W	2,781.95	193	Distance is from N. N.E. cor.
33		641 E	2,804.97	197	
28	36	242 W	2,794.41	200	Fifth meridian.
33		231 W	2,918.00	204	
1	36				
33		246 E			

(a) In range 24 the survey monuments are on the north side of the road allowance.

THIRTEENTH BASE LINE WEST OF FOURTH MERIDIAN

North Boundary of Township 48, Ranges 1 to 28

Ranges 1 to 11: levelled by J. D. Alexander, D.L.S., in 1921
 Ranges 12 to 28 levelled by R. H. Montgomery, D.L.S., in 1947

Rng.	Sec.	Distance from NE cor	Elevation, feet	B.M. No.	Remarks
1	26	188 N	2,149 94	261	Fourth meridian.
	23	246 W	2,140 94	160	
2	26	218 E	2,092 81	157	
	195	195 E	2,255 71	154	
3	26	286 W	2,218 43	150	
	29	280 W	2,257 15	147	
4	26	299 E	2,220 63	144	
	23	287 E	2,183 83	142	
5	26	246 N	2,172 11	139	East outline of range 5.
	23	301 W	2,251 99	134	367 ft. W. of a witness post.
6	26	292 E	2,062 16	129	Distance is from N $\frac{1}{4}$ cor
	23	170 E	2,145 29	129	
7	26	292 W	2,264 70	122	
	23	212 E	2,254 79	119	
8	26	288 E	2,282 49	116	
	23	244 N	2,267 56	113	
9	26	301 E	2,214 15	110	East outline of range 9.
	23	294 E	2,312 52	104	
10	26	440 W	2,269 23	100	342 ft. W. of a witness post.
	23	680 E	2,281 36	97	
11	26	343 E	2,3 5 39	93	270 ft. E. of a witness post.
	23	535 E	2,221 92	89	Could not be located in 1947
12	26	281 W	2,268 96	86	East outline of range 12.
13	24	511 W	2,284 99	85	
14	26	299 W	2,249 26	27	Could not be located in 1947
14	22	218 W	2,237 69	26	Could not be located in 1947
15	24	488 E	2,298 01	25	
	23	294 E	2,264 18	48 H	See Holden.
16	22	291 W	2,232 24	23	
17	24	375 E	2,349 94	22	Could not be located in 1947
18	26	222 W	2,349 92	21	" " " " "
	23	204 W	2,350 65	20	
19	26	400 W	2,371 27	19	
	23	290 W	2,409 07	18	In poor condition
	23	453 E	2,453 16	74 F	See Klingman. Could not be located in 1947
20	26	371 W	2,494 28	17	Could not be located in 1947
	23	206 W	2,525 13	16	
21	26	644 E	2,540 06	15	479 ft. E. of a witness post. Could not be located in 1947
	23	266 W	2,577 40	14	In poor condition
22	26	229 W	2,523 08	13	Could not be located in 1947
	23	416 W	2,594 75	12	
23	26	632 E	2,488 83	11	Distance is from N $\frac{1}{4}$ cor.
	22	273 N	2,500 22	10	2 miles S. of the base line.
24	24	225 N	2,504 12	9	" "
24	24	435 W	2,486 28	8	On base line.
25	26	790 W	2,487 91	7	
	23	400 W	2,492 00	II-45A	See Kavanaugh.
26	24	430 W	2,444 47	6	
24	24	377 W	2,450 14	5	
27	26	577 W	2,480 97	4	
22	22	392 W	2,499 94	3	Could not be located in 1947.
23	24	290 W	2,573 14	2	291 ft. E. of 5th meridian. Could not be located in 1947

FOURTEENTH BASE LINE WEST OF FOURTH MERIDIAN

North Boundary of Township 12, Range 1 to 28

Levelled during Retracement Survey in 1918

Range	Section	Distance from NE. cor.	Elevation, feet	B.M. No.	Remarks
1	30	132 N	2,092 99	304	Fourth meridian.
	30	132 W	1,970 84	4	
2	34	132 E	2,041 45	8	198 ft. E. of a witness post.
3	36	132 W	2,035 25	12	
	33	132 W	1,995 41	16	
4	34	132 W	2,048 09	20	
5	36	132 W	1,990 39	24	
6	36	132 W	2,038 99	30	
	35	132 W	2,025 79	40	
7	34	1452 W	2,211 72	44	198 ft. E. of a witness post.
	36	132 W	2,223 17	48	96 ft. N. and 198 ft. W. of a witness post.
8	33	132 W	2,201 59	52	
9	34	132 W	1,989 89	56	
10	36	132 W	2,189 61	60	126 ft. W. of a witness post.
11	36	132 W	2,201 43	64	
12	36	132 W	2,230 15	68	East outline of range 12. (See B.M. 68.)
	34	132 W	2,211 34	71	30 ft. E. of a witness post, mark on boulder.
13	34	132 W	2,147 17	74	
14	36	132 W	2,206 28	78	
	33	132 W	2,071 13	81	Could not be located in 1947
15	36	132 W	2,073 61	84	
16	36	233 E	2,172 39	90	See list of township outlines, ranges 18 to 22.
17	36	132 W	2,167 73	L-9	See Royal Park.
	33	231 W	2,243 54	94	297 ft. W. of a witness post.
18	34	234 W	2,242 55	98	
19	35	232 W	2,203 55	103	
	36	234 W	2,232 53	106	
20	32	232 W	2,260 19	112	
21	34	233 W	2,254 74	116	
22	36	236 W	2,404 54	120	
	33	132 W	2,404 50	124	
			2,338 57	M-H-3	See Ardrossan.
23	33	132 E	2,362 19	129	Bronze cap has been removed.
23	36	132 W	2,407 11	132	
	32	212 W	2,247 90	133	
24	34	318 E	2,157 06	140	Could not be located in 1947
			2,168 47	80 H	See Edmonton.
			2,157 37	L-1	" "
			2,181 36	144	Top of hydrant, at corner of Jasper Avenue and 123rd Street, Edmonton.
25	36	223 W	2,294 04	150	
1	36	132 W	2,280 81	153	Fifth meridian.

FIFTEENTH BASE LINE WEST OF FOURTH MERIDIAN

North Boundary of Township 56, Ranges 1 to 27

Levelled by C. A. R. Lawrence, D.L.S., in 1923.

Rep.	Sec.	Distance from NE cor.	Elevation feet	B.M. No.	Remarks
1	26	146 W	2,175.61	190	Fourth meridian,
	22	230 E	2,164.81	189	296 ft. W. of a witness post.
2	26		2,198.29	191	294 ft. W. of high water mark on W. side of a small lake at NE cor. sec. 26.
	24	239 W	1,989.07	178	Distance is from N. $\frac{1}{4}$ cor. Fishing Lake crossing.
	22	1865 W	1,974.31	179	214 ft. W. of a witness post. Frog Lake crossing.
3	24	1799 W	1,915.55	173	386 ft. W. of high water mark on W. side of Frog Lake.
4	26	267 W	2,080.50	167	
	22	207 E	1,960.62	168	
5	26	270 E	2,104.29	158	
6	26	264 W	1,969.02	150	
Levels run W along surveyed road through centre of sec. from E. $\frac{1}{4}$ cor. sec. 4-57-7 to E. $\frac{1}{4}$ cor. sec. 4-57-7					
8	4	281 E	1,966.12	147	Distance is from E. $\frac{1}{4}$ cor
7	1		1,967.75	142	288 ft. W. of intersection of middle N. and S. line of sec. 1; on S. side of surveyed road.
	4	248 E	1,921.72	140	246 ft. E. of intersection of E. bdy. sec. 4, on S. side of surveyed road.
Going west along baseline.					
8	26	285 W	2,111.17	136	
9	24	239 W	2,000.70	133	Distance is from N. $\frac{1}{4}$ cor
	31	192 W	2,141.06	127	
9	22	291 W	2,168.19	128	On N. side of road.
10	26	236 W	2,222.96	130	7 ft. S. of S. side of road allowance on the crest of a hill.
			2,127.20	DD-27	See St. Paul.
			2,111.91	117	On N. side of road.
11	26	215 W	2,080.56	118	
12	26	248 W	2,083.42	110	On N. side of road
	26	271 W	2,087.31	106	East outline of range 12. On N. side of road.
	24	271 W	2,080.38	103	Distance is from N. $\frac{1}{4}$ cor. North Saskatchewan River crosses.
13	26	278 W	2,083.96	99	On N. side of road.
	26	295 E	2,127.94	98	
14	26	253 W	2,144.06	93	
	26	258 W	2,185.32	90	
15	26	248 W	2,043.88	87	
	26	229 S	2,088.14	86	
16	26	201 W	2,087.21	82	On N. side of road.
	26	249 S	2,084.69	79	
17	26	205 S	2,085.76	75	
	26	275 W	2,087.12	72	
18	26	239 W	2,088.87	69	See list of township outlines, ranges 16 to 23.
	12	274 S	2,122.16	69C	3 miles S. of the base line.
18	26	445 W	2,193.81	105	Up. 16; 3 miles S. of the base line.
18	26	221 W	2,094.16	66	Continuing W. along the base line.
19	26	278 E	2,089.87	62	
20	26	245 W	2,075.44	59	
	26	294 W	2,043.04	56	
	26	247 S	2,028.72	55	
North Saskatchewan River crosses.					

FIFTEENTH BASE LINE WEST OF FOURTH MERIDIAN—Concluded
North Boundary of Township 50, Ranges 1 to 27—Concluded

Rgn.	Sec.	Distance from N.E. cor.	Elevation feet	B.M. No.	Remarks
21	26	152 E	1,977 16	47	Distance is from N. $\frac{1}{4}$ cor.
	22	185 W	2,042 24	44	
22	245 E	2,091 86	41	On N. side of road.	
	22	260 E	2,108 00	38	
	21	278 E	2,137 53	36	On E. side of road.
			2,161 04	V-4	See Federal.
23	22	284 W	2,171 23	30	
24	26	286 W	2,215 12	27	
	22	299 W	2,301 83	24	
25	26	409 E	2,324 25	20	20 ft. N. of N. side of road.
	22	345 E	2,311 87	17	
26	26	289 W	2,327 55	13	
	22	274 W	2,337 00	10	On N. side of road.
			2,326 33	U-5	See Mearns.
27	26	278 W	2,375 86	7	
	22	284 W	2,292 56	4	
1	26	209 W	2,328 57	1	Fifth meridian.

SIXTEENTH BASE LINE WEST OF FOURTH MERIDIAN
North Boundary of Township 50, Ranges 1 to 27
Levelled by H. E. Read, D.L.S., in 1924

Rgn.	Sec.	Distance from N.E. cor.	Elevation feet	B.M. No.	Remarks
1	26	230 W	1,775 71	172	Fourth meridian.
	22	269 W	1,838 97	169	
2	26	245 W	1,838 26	166	
	22	300 E	1,806 35	166	
3	26	2669 E	1,814 73	160	1,673 ft. E. of a witness post and 637 ft. W. of N. $\frac{1}{4}$ cor. sec. 31-60-2.
	22	345 W	1,877 06	156	
4	26	266 W	1,828 14	152	Ernestine Lake crosses.
	24	732 W	1,837 59	150	200 ft. W. of a witness post.
					Distance is from N. $\frac{1}{4}$ cor., B.M. is 20 ft. E. of a trail.
5	26	263 W	1,832 82	146	East outline of range 5.
	22	372 E	1,838 36	148	
6	26	208 W	1,897 13	140	
	22	308 E	1,838 39	137	
					Moose Lake crosses.
7	22	255 W	1,788 79	134	
8	26	232 W	1,837 83	129	
	22	426 E	1,860 73	129	
9	26	255 W	1,964 96	126	East outline of range 9.
	22	231 W	2,018 85	123	
10	26	436 W	2,060 46	119	
	22	282 E	2,118 82	115	Distance is from N. $\frac{1}{4}$ cor.

SIXTEENTH BASE LINE WEST OF FOURTH MERIDIAN—Concluded
North Boundary of Township 60, Ranges 1 to 27—Concluded

Range	Section	Distance from NE. cor.	Elevation, feet	B.M. No.	Remarks
11	36	266 E	2,181 12	112	
11	35	186 W	2,060 17	106	
12	36	369 E	1,987 97	105	Floatingstone Lake crossing.
12	35	286 W	2,046 64	103	Distance is from N. 1/4 cor.
13	36	316 E	2,028 30	102	Reed Lake crossing.
13	34	342 W	2,120 29	98	Distance is from N. 1/4 cor.
14	36	523 W	2,185 45	95	
14	35	372 W	2,265 45	92	
15	36	623 W	2,278 30	89	
15	35	323 E	2,263 52	88	
16	36	266 E	2,174 80	83	
16	35	281 W	2,257 44	80	
17	36	284 E	2,090 25	77	East outline of range 17.
17	34	284 W	2,182 45	73	
18	36	266 E	1,978 29	69	
18	35	228 W	2,171 72	67	
19	36	269 W	2,217 51	63	
19	35	373 N	2,174 47	60	
20	36	169 W	2,141 89	57	
20	35	216 W	2,152 62	54	
21	36	240 S	2,192 44	51	
21			2,189 57	V-13	See Abas. Could not be located in 1947
22		403 W	2,141 46	47	
22	36	225 S	2,170 06	44	
22	35	224 W	2,190 22	41	On N. side of road.
23	36	265 E	2,228 40	38	
23	35	405 E	2,271 02	34	
24	36	271 W	2,114 79	31	206 ft. W. of a witness post.
24				D-18	See Line Edmonton to Athabasca.
24	35	144 S	2,114 77	24	
25	36	267 E	2,082 30	21	
25	35	224 W	2,056 59	17	
26	36	309 N	2,076 03	14	
26	35	444 E	2,126 66	12	
27	36		2,061 34	U-16	See Fibroch.
27	35	267 S	2,028 25	8	
27		525 E	2,022 56	5	221 ft. E. of a witness post, about 1 mile E. of Fifth meridian.
1	36	277 S	2,034 96	1	Fifth meridian.

EAST OUTLINE OF RANGE 2, WEST OF FOURTH MERIDIAN

Townships 21 and 22

See Sixth Base West of Fourth Meridian.

EAST OUTLINE OF RANGE 5, WEST OF FOURTH MERIDIAN

Townships 3 and 4

Levelled by E. W. Berry, D.L.S., in 1924.

Tp.	Sec.	Distance from N.E. cor.	Elevation feet	B.M. No.	Remarks
3	30	309 W	3,140 53	25	First correction line.
3	13	309 W	3,246 29	3	
	26	near	3,221 35	612	Reclamation Service B.M. Bronze cap on 3-inch pipe within a few ft. of tp. cor.
4	13	403 N	3,466 71	9	Canadian Pacific Railway crosses.
	30	240 W	3,196 53	25	Second base line.

EAST OUTLINE OF RANGE 5, WEST OF FOURTH MERIDIAN

Townships 41 to 48

Levelled by J. B. Alexander, D.L.S., in 1931

Tp.	Sec.	Distance from N.E. cor.	Elevation feet	B.M. No.	Remarks
40	30	543 E	2,250 84	30	Eleventh base line.
41	13	913 S	2,176 23	3	
	36	260 S	2,259 64	6	
42	13	144 N	2,254 22	10	
43	1	258 N	2,250 53	15	Distance in from SE. cor.
	13	200 S	2,274 16	18	
	36	298 N	2,183 25	21	
44	13		2,167 33	24	On N. side of C.N. Ry. right of way, and 240 ft. E. of E. side of sec. 13.
			2,185 66	24H	See Heath.
	36	250 W	2,207 29	30	Twelfth base line.
45	13	523 N	2,219 29	39	
	36	263 N	2,250 61	34	
46	13	299 S	2,273 07	37	
	36	317 W	2,254 54	41	
47	24	255 N	1,888 57	45	
	36	321 N	2,129 77	52	
48	13	240 S	2,126 54	55	
	36	246 N	2,172 11	139	Thirteenth base line.

EAST OUTLINE OF RANGE 5, WEST OF FOURTH MERIDIAN

Townships 60 to 62

Levelled by H. E. Read, D.L.S., in 1924.

Tp.	Sec.	Distance from N.E. cor.	Elevation feet	B.M. No.	Remarks
60	29		1,947 64	78	340 ft. N. of N. end of Murid Lake, and 57 ft. S. of SW cor. of a barn in the corner of a garden fence near E. 1/4 cor. sec. 29.
60	30	282 W	1,822 02	140	Sixteenth base line.
61	13	315 S	1,816 28	61	
61	26	315 S	1,817 05	64	
62	13	284 S	1,808 92	67	330 ft. S. of a witness post.
	36	240 S	1,799 29	70	

EAST OUTLINE OF RANGE 9, WEST OF FOURTH MERIDIAN

Townships 1 to 16

Levelled by C. A. H. Lawrence, D.L.S., in 1922.

Tp.	Sec.	Distance from N.E. cor.	Elevation feet	B.M. No.	Remarks
			3,533 79		Mark on concrete base of International Boundary monument No. 284, about 2 1/2 miles E. of this outline.
			3,627 18		Mark on concrete base of International Boundary monument No. 283, about 1 1/2 miles E. of this outline.
1	1	319 N	2,482 22	1	Distance is from SE corner.
1	13	306 S	2,443 03	4	
2	26	315	2,812 74	7	
2	24	402 S	2,849 42	818	(R) Distance is from E. 1/4 cor.
3	24	near	2,875 60	472	(R) First correction line, near SE cor.
3	24	300 S	2,851 44	19	
3	26	near	2,860 20	472	(R).
4	19	307 S	2,850 49	28	On E. side of road.
4	26	near	2,860 13	474	(R) Second base line.
5	13	328 S	2,550 05	20	
5	26	near	2,809 15	475	(R) In poor condition.
6	13	305 N	2,804 29	34	Could not be located in 1947.
6	26	near	2,808 50	476	(R)
7	24	269 S	2,745 20	41	
7	24	249 N	2,722 46	42	On E. side of road.
8	13	265 S	2,719 81	46	
8	26	272 W	2,662 74	99	Third base line.
9	13	276 N	2,632 74	81	
9	26	270 S	2,616 99	54	
10	13	261 S	2,600 36	57	Could not be located in 1947.
10	26	277 S	2,772 80	60	On E. side of road.
			2,724 20	176C	See Wmnlfrd.
11	13	266 S	2,727 36	84	
11	26	266 S	2,666 52	87	Could not be located in 1947.
12	13	306 S	2,650 60	70	Fourth base line. (See B.M. 186.)

EAST OUTLINE OF RANGE 9, WEST OF FOURTH MERIDIAN—Concluded

Townships 1 to 16—Concluded

Tp.	Sec.	Distance from NE. cor.	Elevation, feet	R.M. No.	Remarks
13	1	237 S	2,325 48	74	Distance is from E. $\frac{1}{4}$ cor.
	24	411 W	2,356 90	128	
	36	227 S	2,338 53	79	
14	18	234 S	2,430 48	82	See Suffield.
	36	297 S	2,419 24	327D	
15	18	351 S	2,419 57	83	
	36	349 S	2,409 19	93	
16	18	287 S	2,555 21	93	Fifth base line.
	36	268 W	2,511 38	93	

EAST OUTLINE OF RANGE 9, WEST OF FOURTH MERIDIAN

Townships 41 to 48

Levelled by J. B. Alexander, D.L.S., in 1921

Tp.	Sec.	Distance from NE. cor.	Elevation, feet	R.M. No.	Remarks
40	21	406 W	2,433 06	90	Eleventh base line. Range 9.
	13	345 N	2,440 91	97	
	36	661 S	2,369 73	64	
41	12	526 S	2,257 60	61	
	36	206 S	2,319 77	47	
	36	287 S	2,281 47	44	
42	1	200 N	2,071 40	83	Distance is from E. $\frac{1}{4}$ cor.
	18	428 N	2,276 62	89	
	36	287 S	2,285 91	87	
43	1	200 N	2,188 40	88H	Twelfth base line. See Irma.
	18	428 N	2,217 00	23	
	36	666 S	2,314 55	20	
44	18	454 S	2,279 17	16	
	36	289 S	2,185 31	13	
	36	438 S	2,326 58	8	
45	18	289 N	2,179 24	6	
	36	278 N	2,147 94	3	
	36	651 E	2,314 16	110	
					Thirteenth base line.

EAST OUTLINE OF RANGE 9, WEST OF FOURTH MERIDIAN

Townships 58 to 60

Levelled by H. E. Read, D.L.S., in 1924.

The levels commence at St. Paul and run N.N.W. along the central meridian of tp. 58 rge. 9 to the N. bdy. of the tp., and then run E. to the E. bdy. of the tp.

Tp.	Sec.	Distance from NE cor.	Elevation ft.-t	B.M. No.	Remarks	
58	16	267 N	2,130 20	DD-27	See St. Paul.	
			2,138 75			
59	1	238 W	2,172 58	112	Distance is from SE. cor. sec. 1.	
			2,140 57			
59	13	206 N	2,093 84	121		
	22	246 N	2,031 84	124	230 ft. N. of a wooden post.	
	13	239 N	2,007 57	127		
60	25	236 W	1,984 00	128	Sixteenth base line.	

EAST OUTLINE OF RANGE 12, WEST OF FOURTH MERIDIAN

Townships 17 to 58

Tps. 17 to 18 levelled by C. A. R. Lawrence, D.L.S., in 1892.

Tps. 20 to 58 levelled by J. B. Alexander, D.L.S., in 1917

Tp.	Sec.	Distance from NE cor.	Elevation feet	B.M. No.	Remarks	
18	26	406 E	2,454 06	68	Fifth base line.	
			2,444 20			
17	13	239 E	2,452 76	7		
			2,452 76			
18	26	235 N	2,478 17	10		
			2,505 16			
19	19	239 N	2,543 76	12		
			2,493 84			
20	1	227 N	2,488 72	245 D	See Deehart.	
			2,494 43			
20	2			205	(C) Iron bar on NE. side of C.P.Ry. and 18 ft. SW. of the first telegraph pole E. of mileboard 75.	
21	24	232 N	2,312 76	206	(C) Top of squared iron post.	
			2,302 92			
22	13	246 S	2,302 16	207		
			178 W			
23	24	278 N	2,316 60	208		
			2,323 65			
24	13	211 N	2,323 65	279		
			2,387 16			
25	24	246 S	2,345 49	272	Seventh base line.	
			2,345 49			
26	13	218 S	2,484 49	281	On E. side of road.	
			2,484 49			
27	1	232 E	2,305 03	235	Distance is from SE. cor.	
			2,345 40			
28	24	247 S	2,385 66	249		
			2,345 40			
29	13	251 S	2,423 03	244		
			2,324 11			
30	24	275 N	2,456 04	233	On E. side of road.	
			2,545 40			
31	1	274 S	2,533 91	2-104	See Stannaire.	
			2,529 94			
31	13	350 E	2,529 94	233	Distance is from SE. cor.	
			2,521 98			

EAST OUTLINE OF RANGE 12, WEST OF FOURTH MERIDIAN Concluded
 Townships 17 to 50—Concluded

Tp.	Sec.	Distance from NE. cor.	Elevation (ft.)	B.M. No.	Remarks
33	12	309 S	2,547 48	213	
	36	344 S	2,511 60	209	Ninth base line.
33	24	249 S	2,576 23	205	
34	12	379 S	2,579 11	199	
	36	299 S	2,574 65	195	On E. side of road.
36	12	303 S	2,620 44	188	
	36		2,664 73	2-28	See Federal.
36	24	282 N	2,626 92	180	
37	24	340 S	2,514 45	170	
35	12	313 S	2,452 11	170	
39	2		2,127 53	160	On railway bridge over Battle River, on top of northerly side of westerly pier, on the concrete bridge west of the shore span, and about 3½ ft. above west of main span.
	11	313 N	2,380 20	160	
	36	482 S	2,410 53	154	
40	24	339 N	2,485 07	149	Distance is from E. N. cor.
	36	233 W	2,428 61	135	Eleventh base line.
41	12	246 N	2,515 17	143	
	36	272 S	2,247 52	127	
42	24	150 S	2,280 01	123	34 ft. S. of a witness post.
43	12	250 S	2,384 05	127	
43	36	280 S	2,242 29	129	
Through tp. 44, and southerly part of tp. 45 the levels run a considerable distance to the W. of the outline.					
44	5	315 S	2,206 43	118	Distance is from E. N. cor.
	21	323 S	2,216 45	111	209 ft. S. of a witness post.
	33	288 W	2,243 37	89	Twelfth base line.
45	9	484 S	2,290 14	106	
	24	365 S	2,281 55	101	
	36	171 N	2,291 31	97	
45	24	323 N	2,278 84	91	Distance is from N. N. cor.
	36	297 24	42 B	See Phillips.	
47	12	462 N	2,267 35	80	
	36	234 N	2,224 37	81	On E. side of road.
48	24	462 S	2,023 52	75	In poor condition.
	36	261 W	2,048 96	66	Thirteenth base line.
49	1	204 N	2,247 05	71	Could not be located in 1947.
	36	519 N	2,317 36	65	Distance is from E. N. cor.
	36	481 N	2,224 98	59	On N. side of road. Distance is from N. N. cor.
Through tp. 50 and southerly part of tp. 51 the levels run around W. side of Birch Lake.					
50	20	488 N	2,217 44	53	On E. side of road.
	36		2,191 42	L-24	See Ranfurly.
51	23	1789 N	2,250 05	7	
52	24	581 N	2,264 96	12	
	36	198 W	2,230 15	63	Fourteenth base line.
Through tps. 53, 54, and 55 the levels run a considerable distance to the W. of the outline.					
53	1	1025 N	2,250 39	17	
	16	271 W	2,131 66	23	
	32	558 S	2,189 13	27	Distance is from N. N. cor.
54	21	249 S	2,030 69	24	
	23	624 N	1,934 39	41	Distance is from E. N. cor., 64 ft. E. of line.
	34	213 S	1,908 95	45	
55	12	264 N	2,024 45	48	
	36	271 W	2,097 31	106	Fifteenth base line.

EAST OUTLINE OF RANGE 13, WEST OF FOURTH MERIDIAN

Townships 3 to 8

Levelled by E. W. Berry, D.L.S., in 1924.

Tp.	Sec.	Distance from N.E. cor.	Elevation feet	B.M. No.	Remarks
2	36	near	2,041 80	622	(R) First correction line.
3	13	311 N	2,053 48	408	
	30	near	2,058 90	623	(R)
4	13	296 S	2,066 68	408	On E. side of road.
	30	near	2,064 58	624	(R) Second base line.
5	13	281 S	2,054 54	414	
	36	near	2,053 08	625	(R)
6	13	266 S	2,046 36	419	
	36	near	2,048 76	406	(R)
7	13	253 N	2,034 55	426	Distance is from E. 1/4 cor.
	36	near	2,030 61	407	(R)
8	13	238 S	2,023 28	422	
	36	near	2,013 01	423	(R) Third base line.

EAST OUTLINE OF RANGE 17, WEST OF FOURTH MERIDIAN

Townships 1 to 16

Tps. 1 to 8 levelled by C. A. R. Lawrence, D.L.S., in 1922.

Tps. 9 to 16 levelled by N. S. Clouston, D.L.S., in 1921.

Tp.	Sec.	Distance from N.E. cor.	Elevation feet	B.M. No.	Remarks
1	1		2,633 97		B.M. placed by International Boundary Commission, on top of brass cap in concrete base of International Boundary monument No. 337, about $\frac{1}{4}$ mile W. of this outline.
	1	317 N	2,611 11	104	Distance is from SE. cor.
	13	309 S	2,664 08	106	
	30	340 S	2,618 20	97	
2	13	326 S	2,681 77	94	
	36	326 S	2,647 13	630	(R) Distance is from E. 1/4 cor.
3	36	343 W	2,520 04	102	First correction line.
	1	near	2,535 28	236	(R) Round iron post alongside (p. cor. post, at SE. cor. of sec. 1).
	1	near	2,479 08	528	(R)
	13	356 S	2,394 86	86	
				210C	See Warner.
4	36	near	2,353 26	527	(R)
	13	368 S	2,321 78	81	Could not be located in 1947.
	36	near	2,248 08	528	(R) Second base line. Could not be located in 1947.
5	13	328 S	2,161 88	78	
	36	near	2,118 07	520	(R)
6	36	near	2,113 18	531	(R) Could not be located in 1947
7	13	381 S	2,061 59	64	
	36	near	2,060 94	522	(R)
8	13	307 S	2,003 94	87	Could not be located in 1947
	36	near	2,077 24	523	(R) Third base line.

EAST OUTLINE OF RANGE 17, WEST OF FOURTH MERIDIAN—Concluded

Townships 1 to 16—Concluded

Tp.	Sec.	Distance from NE. cor.	Elevation feet	R.M. No.	Remarks
9	12	278 N	2,743 51	51	Could not be located in 1947
			2,663 08	186C	See Taber
		216 S	2,668 80	47	Could not be located in 1947
10		near	2,663 07	535	(R)
	13	209 S	2,620 74	43	Could not be located in 1947
11		near	2,586 72	537	(R) SE. cor. of sec. 1
	1	313 N	2,586 27	37	
12		210 S	2,585 76	34	
	13	near	2,563 44	538	(R)
13	12	285 S	2,514 99	91	
		325 S	2,504 78	27	Fourth base line.
14		near	2,467 12	539	(R)
	13	258 S	2,411 .0	24	Could not be located in 1944-45.
15		209 S	2,417 68	20	
	13	near	2,414 04	540	(R)
16		209 S	2,647 84	17	
	13	290 W	2,505 76	12	Distance is from S. 1/4 cor., rge. 16.
17		256 S	2,617 45	9	
	13	361 S	2,495 81	8	
18	12	260 S	2,515 08	8	
	36	514 W	2,611 27	79	Fifth base line.

EAST OUTLINE OF RANGE 17, WEST OF FOURTH MERIDIAN

Townships 59 and 60

Levelled by H. E. Read, D.L.S., in 1924.

Tp.	Sec.	Distance from NE. cor.	Elevation feet	R.M. No.	Remarks
59	36	216 S	1,999 43	OD-9	See Smoky Lake.
	13	284 N	1,086 18	111	
	36	284 E	2,084 83	108	
			2,086 23	77	Sixteenth base line.

EAST OUTLINE OF RANGE 28, WEST OF FOURTH MERIDIAN
 TOWNSHIPS 1 to 4
 Levelled during Retirement Survey in 1918.

Tp.	Sec.	Distance from NE. cor.	Elevation feet	B.M. No.	Remarks
1	1	184 W	5,080 62	13	Top of concrete base of International Boundary monument No. 283, 66 ft. south. Distance is from SE. cor. sec. 1.
2	1	1304 S	4,998 25	7	Distance is from E. 1/4 cor., 78 ft. W. of the line, mark on boulder about 1 cu. yd.
	12	240 S	4,955 62	6	Mark on boulder.
24	278 S	4,979 12	5		
3	1	near	4,182 47	45	(U) Round iron post.
12	408 S	4,931 18	943	(E)	
13	187 N	5,071 60	3	9 ft. W. of the line, mark on limestone boulder	
25	264 S	5,049 55	2		
4	12	415 S	4,940 44	1	54 ft. W. of the line, mark on limestone boulder about 6 cu. yds.
	35	194 S	3,803 75	88	Second base line.

EAST OUTLINE OF RANGE 29, WEST OF FOURTH MERIDIAN
 TOWNSHIPS 9 to 12
 Levelled during Retirement Survey in 1918.

Tp.	Sec.	Distance from NE. cor.	Elevation feet	B.M. No.	Remarks
8	36	781 N	4,063 03	19	Third base line. On E. side of road. Mark on boulder 4 ft. by 2 ft. and 1½ ft. above ground.
9	13	54 N	4,254 50	21	118 ft. W. of the line, mark on boulder 2 ft. by 1 ft. and 7 ins. above ground.
	24	787 N	4,779 80	24	15 ft. E. of the line, mark on granite boulder, 2 ft. by 2 ft. and 6 ins. above ground.
	36	487 S	4,508 34	26	149 ft. W. of the line, mark on granite boulder 4 ft. by 2 ft. and 1 ft. above ground.
10	12	1273 N	4,454 47	28	11 ft. W. of the line, mark on quartzite boulder 3 ft. by 2 ft. and 7 ins. above ground.
	24	1875 S	4,426 62	30	22 ft. W. of the line, mark on limestone boulder 3 ft. by 1 ft. and 10 ins. above ground.
	36	1465 S	4,305 65	32	4 ft. E. of the line, mark on quartzite boulder, 2 ft. by 2 ft. and level with ground.
11	12	798 N	3,935 40	34	825 ft. W. of the line, mark on quartzite boulder 3 ft. by 3 ft. and 1 ft. above ground.
	24	20 W	4,001 64	36	Mark on granite boulder, 2 ft. by 2 ft. and 7 ins. above ground.
11	20	698 S	3,632 63	38	63 ft. W. of the line, mark on sandstone boulder 4 ft. by 3 ft. and 2 ft. above ground.
12	12	239 N	4,019 90	39	Distance is from E. 1/4 cor., 135 ft. W. of the line, mark on limestone boulder 21 ft. by 22 ft. and 13 ft. above ground.
	24	239 N	4,374 70	41	Distance is from E. 1/4 cor., 8 ft. W. of line, mark on sandstone boulder 8 ft. by 8 ft. and 1 ft. above ground.
	35	239 N	4,344 70	43W	Fourth base line, 40 ft. W. of the line, mark on sandstone outcrop 4 ft. by 2 ft. and level with ground.

ESTABLISHED ON TOWNSHIP OUTLINES

Townships 46 to 56, Ranges 16 to 23, West of Fourth Meridian

Levelled by H. E. Read, D.L.S., in 1928.

Note. — The bench marks are given in order of ranges from east to west, each range containing the townships from south to north. When a B.M. on a particular outline is required the township of which the outline forms the north or east boundary should be sought by first referring to the range, and then to the township. All B.M.'s are placed in the south or west limb of roads, except in the few cases especially noted.

Tp.	Sec.	Distance from NE. cor.	Elevation feet	B.M. No.	Remarks
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Range 16

48	36	703 W	2,060 36	34	
	32	291 W	2,060 34	35	
49	18	306 S	2,241 59	50	Bronze cap has been removed
	36	306 S	2,243 65	70	
	32	253 S	2,243 23	71	Could not be located in 1944-45.
50	18	233 S	2,238 60	74	
	36	238 W	2,234 48	75	Could not be located in 1944-45.
	32	306 E	2,237 35	76	Bronze cap has been removed.
51	18	270 S	2,117 54	80	
	36	248 S	2,008 97	81	
	32	278 E	2,009 99	82	
52	18	204 S	2,201 03	84	Could not be located in 1944-45.
	36	238 S	2,172 39	90	" " " " "
	32	231 W	2,043 54	94	297 ft. W. of a witness post, bronze cap has been removed
53	18	294 N	2,175 17	85	Could not be located in 1944-45.
	36	250 E	2,210 42	86	See sec. 44-6.
54	1	270 N	2,186 10	92	Could not be located in 1944-45.
18	560 N	2,184 55	93	In poor condition.	
	36	284 S	2,113 65	95 A	
	32	519 W	2,189 39	94	
55	18	285 S	2,062 42	95	Could not be located in 1944-45.
	36	654 N	2,064 49	96	
	32	260 N	2,181 89	97	

Range 17

48	34	276 E	2,362 84	22	
49	18	280 N	2,269 28	66	
	36	260 W	2,255 26	67	
	32	600 E	2,272 72	68	Bronze cap has been removed.
50	18	529 S	2,281 61	72	
	36	284 S	2,253 80	73	
	32	500 E	2,286 27	77	Could not be located in 1944-45.
51	18	300 S	2,313 12	78	
	36	305 S	2,246 58	85	
	32	284 W	2,243 54	95	In poor condition.
52	18	246 E	2,262 10	87	Could not be located in 1944-45.
	36	423 E	2,257 21	88	On N. side of road.
54	18	600 N	2,225 77	101	
	36	248 W	2,219 96	100	
	32	400 E	2,211 19	110	Could not be located in 1944-45.
55	18	465 S	2,190 71	99	Bronze cap has been removed.
	36	324 E	2,168 98	86	Could not be located in 1944-47.
	32	338 E	2,166 30	104	

ESTABLISHED ON TOWNSHIP OUTLINES—Continued

TOWNSHIPS 16 TO 56, RANGES 10 TO 23, WEST OF FORTRESS MOUNTAIN—Continued

Tp.	Sec.	Distance from NE cor	Elevation feet	R.M. No.	Remarks
RANGE 18					
46	35	681 E	2,243 97	45	
	35	727 W	2,372 24	44	
47	13	276 S	2,357 04	46	
	36	750 W	2,306 13	50 A	
47	33	157 W	2,408 04	49	Could not be located in 1947
48	36	282 W	2,359 33	21	
	33	304 W	2,356 65	20	
49	13	260 S	2,319 63	66	
	36	200 S	2,353 33	54	
	33	200 W	2,345 57	68	
50	12	361 N	2,324 34	62	Could not be located in 1944-45.
	36	288 E	2,302 95	61	
52	35	326 W	2,208 58	103	
	13	351 N	2,207 95	90	
	36	348 W	2,304 78	89	On N. side of road.
	33	387 E	2,213 00	102	Bronze cap has been removed.
54	13	245 S	2,276 57	111	In poor condition.
	35	267 E	2,256 04	109	Could not be located in 1944-45.
	33	380 E	2,185 70	112	
55	13	713 S	2,185 23	108	Could not be located in 1944-45.
	36	445 W	2,183 51	106	
	33	340 E	2,155 77	114	
56	13	274 S	2,123 16	69 C	
	36	239 W	2,080 87	69	Fifteenth base line.
RANGE 19					
46	36	313 W	2,394 41	43	Could not be located in 1947
	35	366 W	2,442 16	36	
47	13	257 N	2,400 30	50 B	Could not be located in 1947
	36	300 S	2,410 76	48	Bronze cap has been removed.
	33	266 E	2,415 89	47	Could not be located in 1947.
48	13	260 N	2,406 74	58	
	36	450 W	2,371 27	10	
	33	209 W	2,389 07	18	
49	13	260 N	2,323 46	54	Could not be located in 1944-45.
	36	260 N	2,310 08	55	
50	13	264 S	2,355 64	60	
	36	600 E	2,291 95	1	
	33	315 W	2,272 90	5	
51	13	217 N	2,216 06	2	
	36	227 E	2,232 53	8	In poor condition.
	33	263 E	2,311 16	8	
52	13	290 N	2,260 61	4	
	36	284 W	2,219 38	106	In poor condition.
	33	323 W	2,280 16	112	
53	13	313 S	2,247 06	91	In poor condition.
	36	410 S	2,259 95	92	
	34	600 W	2,323 50	123	Distance is from N. 1/4 cor. Could not be located in 1944-45.
54	13	382 N	2,213 00	108	
	36	546 E	2,179 36	113	Could not be located in 1944-45.
55	13	380 N	2,361 76	12	Distance is from E. 1/4 cor. 6 ft. E. of line.
	36	625 S	2,129 90	118	
	33	390 E	2,155 92	115	Bronze cap has been removed.
	33	378 E	2,071 75	116	

ESTABLISHED ON TOWNSHIP OUTLINES—Continued

Townsheets 40 to 56, Ranges 16 to 28, West or Fourth Meridian—Continued

Tp.	Sec.	Distance from NE cor.	Elevation feet	B.M. No.	Remarks
RANGE 20					
46	36	282 W	2,474 19	34	Could not be located in 1944
47	12	240 N	2,428 91	35	
36	320 W	2,465 40	42	Could not be located in 1947	
38	324 W	2,420 72	28		
48	12	265 S	2,462 16	47	Could not be located in 1947
36	271 W	2,494 23	17	" " " " "	
38	260 W	2,325 13	16		
49	12	214 N	2,523 15	57	Could not be located in 1944-45.
36	276 S	2,625 35	68		
50	12	320 N	2,425 24	59	Could not be located in 1944-45.
50	36				See tp. 51, sec. 1.
51	1	272 N	2,434 30	6	
36	298 N	2,481 67	9	Distance is from SE cor sec. 1.	
33	255 E	2,443 17	10A	Could not be located in 1944-45.	
33	237 E	2,427 04	11		
52	12	276 S	2,432 93	7	
34	238 W	2,384 74	110		
53	12	294 N	2,326 26	124	
33	1030 E	2,328 03	123		
33	250 E	2,410 15	130	Distance is from N. 1/4 cor.	
54	12	628 E	2,391 33	119	See Sec. 18-54-12.
33	250 W	2,399 12	126	Could not be located in 1944-45.	
55	12	604 N	2,185 51	120	
33	270 E	2,053 30	117		
33	209 E	2,074 87	128		
RANGE 21					
46	36	250 W	2,484 12	33	
33	221 W	2,475 24	32		
47	12	268 N	2,438 25	29	
36	206 S	2,466 86	27		
33	473 E	2,482 90	28		
48	12	316 N	2,446 05	31	Distance is from E. 1/4 cor.
36	644 E	2,546 06	15	185 ft. E. of a witness post. Could not be located in 1944-45.	
33	368 W	2,617 40	14	In poor condition.	
49	12	206 S	2,689 30	20	Could not be located in 1944-45.
33	314 E	2,045 44	21		
51	12	199 E	2,438 32	12	Could not be located in 1944-45.
34	501 S	2,430 53	13	Distance is from E. 1/4 cor.	
33	209 W	2,426 28	14		
51	9	238 W	2,444 80	17	
33	12	250 N	2,493 88	106	
33	250 W	2,404 54	120		
33	188 W	2,424 60	124		
53	36	485 N	2,376 21	181	
54	12	405 N	2,387 71	120A	
33	495 E	2,190 26	129		
55	12	624 E	2,193 06	128	Could not be located in 1944-45.
33	342 S	2,195 88	126	" " " " "	
33	372 E	2,036 89	127	" " " " "	

ESTABLISHED ON TOWNSHIP OUTLINES--Concluded

TOWNSHIPS 46 TO 50, RANGES 16 TO 20, WEST OF FIFTH MERIDIAN--Concluded

Tp.	Sec.	Distance from NE cor.	Elevation feet	R.M. No.	Remarks
RANGE 22					
46	53	335 E	2,402 18	87	
47	25	292 S	2,442 63	25	
24		235 W	2,471 98	41	
21		180 W	2,209 08	40	
48	12	310 N	2,609 08	24	
26		230 W	2,622 08	13	
23		415 W	2,604 72	12	
49	13	290 N	2,518 76	23	
26		232 S	2,524 37	22	
50	11	215 N	2,625 85	20	
26		250 W	2,641 38	18	
51	11	269 S	2,459 20	19	
26		235 N	2,471 20	15	
52	13	345 S	2,440 62	16	Could not be located in 1944-45.
23		180 E	2,348 19	159	" " " " "
54	25	305 W	2,050 76	182	Bronze cap has been removed.

RANGE 23

47	1	272 N	2,448 98	38	Distance is from SE cor. Could not be located in 1947.
	13	295 N	2,50. 70	39	Could not be located in 1947

FIFTH MERIDIAN

TOWNSHIPS 5 TO 8 AND TOWNSHIPS 13 TO 20

Levelled during Retracement Surveys in 1918 and 1919.

Tp.	Sec.	Distance from NE cor.	Elevation feet	R.M. No.	Remarks
Levelled in 1918					
4	26	2748	6,108 00	92	Second base line, 694 ft. E. of the meridian, mark on quartz boulder about 5 cu. yds.
5	13	373 S	4,481 63	2	51 ft. E. of the meridian, mark on limestone boulder 2 ft. by 2 ft.
26	near		4,222 81	94	(I) Top of iron post.
6	24	720 S	2,935 00	4	On E. side of road, mark on quartz boulder, about 1 cu. yd.
7	13	267 S	2,798 29	94D	See Pincher.
25	667 N	2,591 29	6	Distance is from E. 1/4 cor., 53 ft. E. of the meridian, mark on boulder, 9 cu. ft.	
26	near	2,790 00	95	(I) Top of iron post.	

FIFTH MERIDIAN—Concluded

Townships 5 to 8 and Townships 13 to 22—Concluded

Tp.	Sec.	Distance from NE cor.	Elevation feet	R.M. No.	Remarks
Levelled in 1915—Concluded					
8	18	188 S	4,428 29	10	
	36	168 N	5,328 75	11	Third base line, 1.7 ft. W. of the meridian, mark on sandstone boulder about 25 cu. ft.
12	36	737 N	5,483 72	49W	Fourth base line, mark on sandstone outcrop 4 ft. by 2 ft. and level with the ground.
13	13	773 S	5,120 49	52	36 ft. W. of the meridian, mark on sandstone outcrop 7 ft. by 3 ft.
14	1	844 N	3,973 00	55	Distance a from E. $\frac{1}{4}$ cor., 13 ft. E. of the meridian, mark on limestone boulder about 20 cu. ft.
	13	749 N	4,443 01	57	22 ft. E. of the meridian, mark on limestone boulder about 6 cu. yds.
	36	108 N	4,569 30	617	
Levelled in 1915					
15	12	196 N	4,408 11	615	
	36	230 N	4,288 28	611	
16	24	230 S	3,641 57	607	
	36	256 N	3,573 69	112	Fifth base line.
17	12	230 S	3,448 12	608	
	36	230 S	3,597 46	599	
18	24	230 N	3,581 80	598	
19	12	230 S	3,652 78	59	
20	12	230 S	3,614 56	585	
	36	230 S	3,496 87	581	D See Okotoks.
	36	230 S	3,630 63	581	Sixth base line.
21	24	231 S	3,656 41	577	
22	12	230 S	3,408 36	573	
	36	230 S	3,213 41	569	
23	24	230 S	3,269 22	565	
24	12	230 S	3,504 83	562	Distance a from E. $\frac{1}{4}$ cor. Could not be located in 1914-15.
	36	230 S	3,407 59	H-5	See Calgary.
	36	230 S	3,505 49	558	Seventh base line. Could not be located in 1914-15.
25	24	230 N	3,670 83	554	16 ft. W. of line.
26	12	230 S	3,520 88	550	
	36	230 N	3,528 71	H-9	See Balzac.
	36	230 N	3,270 71	545	16 ft. W. of line.
	36	230 N	3,540 02	H-10	See Airdrie.
27	24	230 S	3,613 22	543	16 ft. W. of line.
28	12	230 S	3,522 68	538	" "
	36	230 S	3,600 78	535	Eighth base line.
29	24	264 S	2,401 60	530	
	36	at cor.	3,282 12	147	(I) Top of iron post.
30	12	196 S	3,278 65	528	
	36	264 S	2,278 65	523	
31	24	264 S	3,284 57	518	
32	12	264 S	3,260 10	514	
33	36	230 S	3,268 83	510	Ninth base line.

FIFTH BASE LINE WEST OF FIFTH MERIDIAN

North Boundary of Township 10, Ranges 1 and 2

Levelled by L. O. R. Dorey, D.L.S., in 1921

Rge.	Sec.	Distance from NE cor.	Elevation feet	B.M. No.	Remarks
1	36	266 E	3,672 69	112	Fifth meridian.
	35	266 E	3,663 43	4	
2	36	264 E	4,120 78	7	Written 200 yds. of the N. W. cor. of sec. 31, and 20 ft. E. of the N. end of an isolated willow bluff.
	35	266 E	4,097 87	10	
	31		4,489 62	14	

SIXTH BASE LINE WEST OF FIFTH MERIDIAN

North Boundary of Township 20, Ranges 1 to 3

Levelled by L. O. R. Dorey, D.L.S., in 1921

Rge.	Sec.	Distance from NE cor.	Elevation feet	B.M. No.	Remarks
1	12	260 S	3,614 56	585	Fifth meridian.
	13	128 E	3,603 79	-	Highest point of rock ledge.
	15		3,630 47	(G)	(G) on S. side of Provincial road and 58 ft. W. of the intersection of the quarter section line running N. and S.
2	16	208 W	3,763 66	4	On S. side of Provincial road
	18	216 W	3,746 12	6	" " "
	18	209 E	3,653 57	11	" " "
	19	63 N	3,630 53		
3	36	66 E	3,678 60		(G) At NW. intersection of roads.
	35	279 E	3,997 90	12	(G) 66 ft. N. of line.
4	36	211 W	4,160 20	22	

(G) B.M. (4-inch iron pipe with bronze cap) placed by Geological Survey

SEVENTH BASE LINE WEST OF FIFTH MERIDIAN

North Boundary of Township 24, Ranges 1 to 5

Levelled by L. O. R. Desois, D.L.S., in 1921

Rgs.	Sec.	Distance from NE cor.	Elevation feet	R.M. No.	Remarks
1	36	336 S	3,556 49	558	Fifth meridian.
	33	150 N	3,449 27	517	See Beddington.
	31	275 E	3,980 49	5	Distance a from N. 1/4 cor., on highest point of rock outcrop on the upper slope of Nose Hill.
2	36	+	3,716 46	6	On N. side of road.
	34		3,515 13	219 C	See Robertson.
			3,514 17	9	Former water tank, on top of concrete platform, which is nearest to C.P Ry.
Levels run westerly for a mile and then turn southerly and then run westerly along the Provincial road through the middle of secs. 33 and 31, and then turn south.					
3	32	292 W	3,687 10	1.	Distance a from E. 1/4 cor. on S. side of Provincial road.
	36	336 S	3,901 62	13	Distance a from E. 1/4 cor., on E. side of road allowance.
	34	228 E	4,041 62	15	
Levels turn west.					
4	21	277 E	3,622 79	19	
	24	317 W	4,024 42	22	
	21	218 W	4,059 78	26	
5	24	300 W	4,105 50	28	
Levels run northwesterly along South Morley Road.					
	35	416 W	4,322 16	32	

EIGHTH BASE LINE WEST OF FIFTH MERIDIAN

North Boundary of Township 23, Ranges 1 to 4

Levelled by L. O. R. Desois, D.L.S., in 1921

Rgs.	Sec.	Distance from NE cor.	Elevation feet	R.M. No.	Remarks
1	25	336 S	3,609 78	525	Fifth meridian.
	23	244 W	3,655 65	4	
2	26	228 W	3,773 65	7	
	23	243 W	3,600 65	10	On N. side of road.
3	26	261 E	3,702 70	12	
	23	253 W	3,697 65	15	
4	26	272 E	3,672 44	19	On N. side of road.
	23	237 E	3,603 65	22	11 ft. S. of the line.

NINTH BASE LINE WEST OF FIFTH MERIDIAN

Northeast Boundary of Township 22, Ranges 1 to 7

Levelled by L. O. R. Dossin, D.L.S., in 1921

Rgn.	Sec.	Distance from NE. cor.	Elevation feet.	B.M. No.	Remarks
1	36	230 S	3,220 53	610	Fifth meridian. See Olds.
			3,412 39	31-24	
2	36	231 W	3,221 64	23	In poor condition.
	33	212 W	3,418 28	24	On N. side of road.
3	35	226 W	3,208 80	30	Could not be located in 1947
	33	26. W	3,225 61	23	" "

Leaves turn S. for $\frac{1}{4}$ mile and run W. for 4 miles along Provincial Road through middle of secs. 36 to 33 and then go back N. to the base line.

4	36	229 N	3,525 91	26	Distance is from E. $\frac{1}{4}$ cor. Could not be located in 1947
	33	316 E	3,557 61	39	Distance is from E. $\frac{1}{4}$ cor., on S. side of Provincial Road.
5	36	240 W	3,708 41	42	
			3,584 68	45	Steel bridge over Red Deer River, on top of iron plate at NE. corner of steel structure, resting on N. end of most eastern concrete pier.
6	36	304 E	3,655 29	48	
	33	230 E	3,808 56	51	On N. side of road.
7	36	1046 E	3,958 24	55	
	33	337 W	3,913 04	56	

TENTH BASE LINE WEST OF FIFTH MERIDIAN

Northeast Boundary of Township 26, Ranges 1 to 7

Levelled by L. O. R. Dossin, D. L. S., in 1921

Rgn.	Sec.	Distance from NE. cor.	Elevation feet.	B.M. No.	Remarks
1	36	268 N	3,053 53	1	Fifth meridian.
	33	260 W	3,030 75	24	
2	36	206 E	3,004 43	27	On N. side of road.
	33	202 W	3,087 23	30	
3	36	244 W	3,050 17	33	
	33	200 W	3,187 68	36	On N. side of road.

Leaves turn S. and then run W. generally following the Provincial Road which runs along the $\frac{1}{4}$ sec. line 3/4 mile S. of the base line through ranges 4 to 7.

4	12	208 W	3,203 65	43	On S. side of road allowance.
	15		3,176 99	46	On S. side of Provincial Road described above, 230 ft. E. of road survey post No. 11 and about $\frac{1}{4}$ mile NE. of crossing of Stauffer Creek.

TENTH BASE LINE WEST OF FIFTH MERIDIAN - Concluded
 North Boundary of Township 36, Ranges 1 to 7 - Concluded

Range	Sec.	Distance from N.E. cor.	Elevation, feet	B.M. No.	Remarks
5	13		3,256 28	49	On S. side of above road, 312 ft. E. of E. bdy. of sec. 13.
	16		3,476 08	52	On S. side of above road, 260 ft. W. of E. bdy. of sec. 16.
6	13		3,458 98	65	On S. side of above road, 12 ft. W. of end of road diversion at W. side of muskeg.
	16		3,558 70	58	On S. side of above road, 861 ft. W. of E. bdy. of sec. 16.
7	13		3,530 65	61	About 400 ft. W. of W. end of bridge over Charron River, on the W. side of the road and about 20 ft. S. of the corner, and on the E. bdy. of sec. 13.
8	9	303 W	3,636 65	64	
	12	286 S	3,724 17	67	

ELEVENTH BASE LINE WEST OF FIFTH MERIDIAN
 North Boundary of Township 40, Ranges 1 to 7
 Levelling by L. O. R. Desous, D.L.S., in 1921

Range	Sec.	Distance from N.E. cor.	Elevation, feet	B.M. No.	Remarks
The levels run 2 miles S. of the base line in ranges 1 to 6.					
1	24	206 E	2,995 42	144	Fifth meridian
	22	350 W	2,918 60	141	Distance is from N. W. cor.
2	24	245 E	3,037 60	137	
	21	234 E	3,174 30	134	On N. side of road.
3	24	226 W	3,263 34	131	
	21	220 W	3,125 79	128	On N. side of road.
4	24	276 E	3,119 32	125	
	21	216 W	3,202 28	122	On N. side of road.
5	24	235 W	3,505 88	120	
	21	201 W	3,473 59	117	" "
6	24		3,244 42	114	On S. side of Provincial Road running W. through middle of sec. 24, 23, and 22; 236 ft. W. of E. bdy. of sec. 24.
	21		3,274 48	111	On S. side of above road, 361 ft. E. of E. bdy. of sec. 21.
	19		3,256 00	109	On S. side of road allowance, 812 ft. E. of N. W. cor. sec. 19.
7	35	+	3,407 46	108	On S. side of Provincial road running W. through middle of sec. 26, 34, and 35; 219 ft. W. of E. bdy. of sec. 35.
	32		3,081 22	102	On S. side of above road, 207 ft. E. of E. bdy. of sec. 32.

EDMONTON TO ATHABASCA

From Edmonton to Athabasca Lapping Following the Trans-Canada Highway to Tawatinaw,
Then along C.N.R.Y. to Athabasca

Levelled by C. de la Courdaine D.L.S. in 1913.

Mile	West of Fourth Milestone
0-00	C.N.R.Y. station, Edmonton
2-00	Edmonton. 200 ft. W. of intersection of W. side of 97th (Nanayet) Ave. and N. side of C.N.R.Y. right of way on top of brass plug set vertically in concrete in 8-inch iron pipe. City B.M. No. 12. Elevation 3,194 38.
3-13	Edmonton. About 1,200 ft. E. of 97th (Nanayet) Ave. on S. side of C.N.R.Y. right of way on top of brass plug set vertically in concrete in 8-inch iron pipe. City B.M. No. 11. Elevation 3,196 91.
4-00	See 29-23-24. On E. body of sec 29 and 30 0 ft. N. of 1 cor. Could not be located in 1944-1945. No. D-3. Elevation 3,138 59.
4-01	See 8-24-24. On E. body of sec 8 and 21 0 ft. N. of SE cor. Could not be located in 1944-1945. No. D-4. Elevation 3,232 79.
4-04	See 29-24-24. About 2 miles N. of Namao on E. body of sec 29 and 14 0 ft. N. of SE cor. N. side of road. Could not be located in 1944-1945. No. D-4. Elevation 3,241 66.
10-00	See 23-24-24. About 1 mile W. of Namao on E. body of sec 23 and 6 ft. S. of NE cor. Could not be located in 1944-45. No. D-5. Elevation 3,247 47.
14-77	See 8-24-23. About 2 miles E. of Namao 0 ft. N. of NE cor. sec 1-24-24. on E. side of N. and S. road. Could not be located in 1944-45. No. D-6. Elevation 3,202 17.
14-78	See 24-24-24. About 2 1/2 miles N. of Drayton on E. body of sec 24 and 56 ft. N. of 1 cor. 4 ft. E. of fence on W. side of road. Could not be located in 1944-45. No. D-7. Elevation 3,162 89.
21-04	See 29-25-23. Near New Lumsden. 68 ft. N. of N. body of road diversion going E. through middle of sec 29 and 3 1/2 ft. E. of E. body of sec 23. Brass cap has been removed. No. D-8. Elevation 3,204 31.
21-09	See 8-25-23. About 2 1/2 miles N. of New Lumsden on E. body of sec 8 and 178 ft. N. of NE cor. on W. side of road. Could not be located in 1944-45. No. D-9. Elevation 3,155 84.
27-79	See 23-25-23. About 2 1/2 miles N. of Federak. 178 ft. N. and 40 ft. E. of NE cor. sec 23. Could not be located in 1944-1945. No. D-10. Elevation 3,118 24. See Federak.
29-80	See 8-27-23. About 1 mile W. of Federak. 72 ft. E. of NE cor. sec 8, on N. side of road. Could not be located in 1944-45. No. D-11. Elevation 3,187 58.
30-13	See 29-27-23. E. side of 1 1/2 Lake. 410 ft. northerly from NE cor. of sec 23 on W. side of surveyed road. Could not be located in 1944-1945. No. D-12. Elevation 3,145 73.
30-00	See 8-28-23. About 2 1/2 miles N. of N. end of Lily Lake. 8 ft. W. and 3 ft. N. of entrance to N. half of surveyed road and S. body of sec 8. No. D-13. Elevation 3,163 78.
30-02	See 19-28-23. At Waugh. 224 ft. S. of intersection of N. body of sec 19, on W. side of surveyed road. Could not be located in 1944-45. No. D-14. Elevation 3,088 24.
41-04	See 8-38-23. About 3 miles N. of Waugh. 660 ft. northerly (along trail) from N. edge of Redwater River on W. side of surveyed road. Could not be located in 1944-45. No. D-15. Elevation 3,088 90.
47-74	See 25-28-24. About 1 1/2 miles S. of Egg's place. Halfway Lake, 2,179 ft. N. of S. body of sec 25 on W. side of surveyed road. Could not be located in 1944-45. No. D-16. Elevation 3,167 31.
50-09	See 1-20-24. About 100 yds. N. of entrance of Egg's place. Halfway Lake, on N. body of sec 1, on E. side of surveyed road. No. D-17. Elevation 3,108 89.
50-03	See 1-20-24. About 100 yds. N. of entrance to Egg's place. Halfway Lake, 10 ft. S. of N. body of sec 1, on W. side of surveyed road. No. D-17A. Elevation 3,108 11.

Miles

West of Fourth Meridian

46-11 Sec. 20-49-24. About $\frac{3}{4}$ miles N of Eggers' place, Halfway Lake, 1,000 ft. N. of N body sec. 23, on E side of surveyed road. No. D-16. Elevation 3,134 ft.

46-17 Sec. 11-49-24. About $\frac{1}{2}$ miles N of Eggers' place Halfway Lake, near intersection of N body of sec. 11, on E side of surveyed road. No. D-19. Elevation 3,135 ft.

ALONG CANADIAN NATIONAL RAILWAYS

46-41 Sec. 20-41-24. About $\frac{1}{2}$ mile N of Tawatinaw station about 200 yds N. of mile post 69, and 14 ft. W. of E railway line. No. D-20. Elevation 3,030 ft.

46-74 Sec. 12-34-23. About $\frac{3}{4}$ miles N of Tawatinaw station about 200 yds S. of mile post 69 and 12 feet N. of E railway line. No. D-21. Elevation 3,040 ft.

47-22 Tp. 62, rge. 24. About $\frac{1}{2}$ mile N. of Rochester station 70 ft. N. of mile post 65 and 27 ft. E. of centre of track. No. D-22. Elevation 3,040 ft.

74-46 Tp. 62, rge. 23. About $\frac{1}{2}$ mile S. of Lorraine station, about 200 yds S. of mile post 73 and 81 ft. W. of centre of track. No. D-23. Elevation 3,040 ft.

76-31 Tp. 64, rge. 23. About $\frac{3}{4}$ miles N of Lorraine station, at C N Ry change 3,047 ft. about 200 yds S. of mile post 78 and 30 ft. N. of centre of track. No. D-24. Elevation 3,048 ft.

46-76 Tp. 64, rge. 23. About $\frac{1}{2}$ mile N. of Meenoch station, 100 yds N.E. of crossing of main road fromage to Athabasca Landing about 200 yds N. of mile post 81 and 30 ft. E. of centre of track. No. D-25. Elevation 3,075 ft.

47-33 Tp. 64, rge. 23. 420 ft. S. of Colinton station, 600 yds N. of mile post 81 and 30 ft. W. of centre of track. No. D-26. Elevation 3,070 ft.

51-30 Tp. 64, rge. 23. About $\frac{1}{2}$ miles N. of Colinton station about 1,000 yds N. of mile post 88 and 47 ft. E. of centre of track. No. D-27. Elevation 3,137 ft.

76-19 Tp. 64, rge. 23. About $\frac{1}{2}$ mile S. of Athabasca Landing, 600 yds S. of crossing of Tawatinaw River and 50 ft. E. of centre of track. No. D-28. Elevation 3,070 ft.

56-23 Tp. 66, rge. 23. About $\frac{1}{2}$ mile S. of Athabasca Landing, 400 yds S. of crossing of Tawatinaw River and 50 ft. W. of centre of track. No. D-29. Elevation 3,087 ft.

GROUARD TO POUCE COUPE

From Grouard to Pouce Coupe and Divisional, then Southward to Grouard Prairie and Northward to Pouce Coupe, following the Surveyed Road.

Lavelled by L. E. S. Belles D.L.S. in 1918. Grouard to Divisional

Lavelled by J. B. Alexander D.L.S., in 1918. Divisional to Pouce Coupe

0-40 Sec. 13-78-14. Grouard, on S body of Rivière property 100 ft. W. of N. side of Main St. No. T-1. Elevation 1,000 ft.

0-40 Sec. 13-78-14. Grouard public school, 9 ms. N. of front of building, 14 ms. S. of S. side of porch. No. T-2. Elevation 1,002 ft.

2-19 Sec. 8-78-14. 134 ft. S. of road post No. 5 on E. limit of surveyed road. No. T-3. Elevation 1,000 ft.

7-58 Sec. 13-78-15. Heart River Settlement, 300 ft. SW. of road post between lots 60 and 61 on southerly limit of surveyed road. No. T-4. Elevation 1,002 ft.

10-10 Sec. 20-78-15. Bottler's place 80 ft. SE. of NE. cor. of fence around Bottler's Field Indian Reserve. No. 1800 on southerly limit of surveyed road. No. T-5. Elevation 1,046 ft.

13-58 Sec. 23-78-15. On 20th bar, 100 ft. E. of NE. cor. sec. 21, at intersection of telegraph line. No. T-6. Elevation 1,000 ft.

17-40 Sec. 14-77-16. 125 ft. southerly from road post No. 48, on southerly limit of surveyed road. No. T-7. Elevation 1,022 ft.

21-58 Sec. 23-77-16. About $\frac{1}{2}$ miles S. of Heart River 100 ft. W. of N. 1 cor. sec. 20 and 30 ft. W. of southerly limit of surveyed road. No. T-8. Elevation 1,070 ft.

25-19 Sec. 13-78-17. About 3 miles N. of Heart River, on E. body sec. 13 and 300 ft. N. of 1 cor. and 10 ft. S. of southerly limit of surveyed road. No. T-9. Elevation 1,070 ft.

Miles

West of Fifth Meridian

29-47 Sec 34-79-17 On N. bdy. of the sec at crossing of westerly limit of surveyed road. No. T-10. Elevation 1,368-31.

34-53 Sec 34-79-17 About 4½ miles S. of Bearhead Creek on line joining road posts 173 and 175 and 300 ft. from 173. No. T-11. Elevation 1,373-30.

37-48 Sec 34-79-18 About 1 mile S. of Bearhead Creek, on E. bdy. of sec 34 at crossing of southerly limit of surveyed road. No. T-12. Elevation 1,380-32.

43-18 Sec 34-80-18 About 2½ miles S. of Bearhead Creek, 720 ft. northerly from road post No. 212 on westerly limit of surveyed road. No. T-13. Elevation 1,363-34.

45-50 Sec 34-80-18 About 2½ miles from Paul's stopping place on crossing of E. bdy. of sec 17 and 466 ft. S. of NE cor. and 180 ft. W. of road post No. 286, on southerly limit of surveyed road. No. T-14. Elevation 1,379-32.

49-36 No. T-15. See Rens.

53-33 Sec 34-81-19 About 1 mile S. of Benjamin Creek on N. bdy. of sec 9 and 20 ft. easterly from road post No. 302, on southerly limit of surveyed road. No. T-16. Elevation 1,368-31.

57-34 Sec 34-81-19 About 1½ miles N. of North Heart River, 220 ft. westerly from road post No. 287 on southerly limit of surveyed road. No. T-17. Elevation 1,323-31.

61-44 Sec 34-82-20 About 2 miles S. of Crooked bridge, 420 ft. southerly from road post No. 329, on westerly limit of surveyed road. No. T-18. Elevation 1,352-34.

65-39 Sec 34-82-20 About 1½ miles S. of Crooked bridge on E. bdy. of sec 20 and 23 ft. S. of southerly limit of road 20 ft. easterly from road post No. 328. No. T-19. Elevation 1,364-34.

69-39 Sec 34-82-21 About 3 miles S. of Crooked bridge on E. bdy. of sec 12 and 140 ft. N. of southerly limit of surveyed road. No. T-20. Elevation 1,337-34.

73-36 Sec 34-82-21 About 2 miles SE of Peace River 180 feet easterly from road survey wooden post No. 380, on southerly limit of surveyed road. No. T-21. Elevation 1,748-30.

75-49 No. T-22. See Peace River.

77-33 No. T-23. See Peace River.

79-42 Sec 34-82-22 Mailhot's store Shafesbury Settlement, on settlement survey line, 180 ft. NW of iron post, between lots 26 and 28 and 18 ms. W. and 19 ms. S. of SE cor. of Mailhot's store. No. T-24. Elevation 1,338-73.

84-39 Sec 4-82-23 About ½ mile E. of Strong Creek on line between settlement lots 26 and 28 and 30 ft. southerly from witness post marked 3 ½ E. Could not be located in 1944-45. No. T-25. Elevation 1,369-32.

85-32 Sec 34-82-23 About 1 mile NW of Shafesbury P.O. 6 ft. westerly from line between settlement lots 14 and 15 on southerly limit of surveyed road. Could not be located in 1944-45. No. T-26. Elevation 1,361-37.

87-37 Sec 34-82-23 About 3 miles westerly from Shafesbury P.O. 300 ft. westerly from road post 12 on northerly limit of surveyed road. Could not be located in 1944-45. No. T-27. Elevation 1,373-31.

89-34 Sec 34-82-24 On N. bdy. of the sec and 200 ft. E. of NE cor. sec 3, on trace line in thick shrub. No. T-28. Elevation 1,339-39.

100-12 Sec 34-82-24 About ½ miles NE of Griffin Creek on N. bdy. of sec 7 and 200 ft. W. of NE cor. of sec. No. T-29. Elevation 1,362-44.

100-36 Sec 34-82-25 About ½ miles NE of Griffin Creek on N. bdy. of Indian Reserve No. 181A and 80 ft. S. of N. bdy. of sec. No. T-30. Elevation 1,379-32.

107-43 Sec 34-82-26 About 1 mile W. of Griffin Creek 300 ft. E. of ½ cor. on N. bdy. of sec 31. Could not be located in 1944-45. No. T-31. Elevation 1,338-34.

111-39 Sec 34-82-1 On 6th meridian, about ½ miles W. of Griffin Creek, 300 ft. S. of NE cor. sec 39. Bronze cap has been removed. No. T-32. Elevation 1,338-32.

122-13 Sec 1-82-1 On 6th meridian, about ½ miles W. of Griffin Creek, 300 ft. N. of ½ cor. on E. bdy. of sec 1. No. T-33. Elevation 2,162-31.

Survey line travelled NE and NW to the Sixth Meridian at N. bdy. of sp. 38. Mileage in from NE cor. sec. 38-42-1

5-39 Sec 13-82-26. About 1 mile W. of Wilson's, on E. bdy. sec. 13 and 200 ft. N. of road post No. 48. No. T-1. Elevation 2,088-48.

West of Fifth Meridian

9-79 Sec. 31-33-35 About 3½ miles N of Wilson's, on N bdy sec. 31 1,490 ft. W of NE cor. No. T-2. Elevation 2,163 66.

15-82 Sec. 25-33-36 About 2 miles SW of Last Lake, on E bdy sec. 25 and 33 900 ft. S. of ½ cor. No. T-3. Elevation 2,182 01.

West of Sixth Meridian

19-11 Sec. 12-18-1 About 1 mile N of Last Lake, on E bdy sec. 12 and 33 900 ft. N of NE cor sec. 1. No. T-4. Elevation 2,201 05.

24-11 Sec. 25-34-1 About 4 miles N of Last Lake, 295 ft. S. of NE cor sec. 25. No. T-4. Elevation 2,422 68.

24-21 Sec. 1-8-1 About 8 miles N of Last Lake, on 8th meridian 998 ft. N of NE cor sec. 33-34-1 On road, road post No. 211. Elevation 2,480 95.

Continuation of Map Line

West of Sixth Meridian

115-95 Sec. 5-6-1 About 2 miles E of Blysky on E bdy sec. 5 and 350 ft. N of NE cor sec. 32-31-1. Could not be located in 1944-45. No. T-24. Elevation 2,139 63.

130-10 Sec. 35-61-2 About 2 miles W of Blysky on N bdy of sec. 35 and 300 ft. E. of NE cor sec. 35. No. T-35. Elevation 2,113 87.

134-28 No. T-36. See Fairview

131-35 Sec. 19-31-3 About ½ mile W of Vagress, on N bdy of sec. 19 and 302 ft. E. of NE cor sec. 24-31-4. No. T-36. Elevation 2,026 31.

136-40 Sec. 2-31-4 About 7 miles NE of Dunvegan, 137 ft. W of road post No. 18 and 197 ft. E. of road post No. 17, on northerly limit of surveyed road. No. T-39. Elevation 1,828 28.

140-38 Sec. 20-30-4. About 4 miles NE of Dunvegan, 250 ft. northerly from road post No. 4 on westerly limit of surveyed road. Could not be located in 1944-45. No. T-40. Elevation 1,882 03.

143-76 Sec. 1-30-4 On property of R. Peters, 21 ft. W and 18 ft. S. of SW cor of SW barn, 200 ft. W of fence, and 45 ft. N of N limit of surveyed settlement. No. T-41. Elevation 1,120 13.

142-93 Sec. 8-30-4 Dunvegan Roman Catholic Mission property, on E bdy of property 155 ft. N of road for 31 cor of street lines. No. T-42. Elevation 1,147 01.

145-13 Sec. 1-78-4 About 2½ miles S of Dunvegan, on line between road posts Nos. 18 and 19 and 180 ft. northerly from No. 19 on easterly limit of surveyed road. Could not be located in 1944-45. No. T-43. Elevation 1,724 78.

150-39 Sec. 14-79-5 About 7½ miles S of Dunvegan opposite trail leading to Bussell's place, on easterly limit of surveyed road. Could not be located in 1944-45. No. T-44. Elevation 1,901 40.

153-08 Sec. 12-78-5 On E bdy of sec. 22 and 8 ft. N of NE cor sec. 29. No. T-45. Elevation 1,837 63.

157-35 No. T-46. See Ryecraft.

161-97 No. T-48. See Ryecraft.

166-14 Sec. 21-77-6 On line between road posts Nos. 11 and 12 and 10 ft. northerly from No. 12, on westerly limit of surveyed road. Could not be located in 1944-45. No. T-49. Elevation 2,067 91.

166-35 Sec. 4-77-6 On S. side of Burnt River, on line between road posts Nos. 36 and 38 and 176 ft. southerly from No. 36, on westerly limit of surveyed road. Could not be located in 1944-45. No. T-50. Elevation 2,089 11.

172-55 Sec. 20-78-3 1,641 ft. S. of the E ½ cor sec. 20 and 2 ft. E. of the W bdy of road allowance. Could not be located in 1944-45. No. T-51. Elevation 2,162 40.

176-57 Sec. 23-78-3 448 ft. N of road post No. 158 and 8 ft. N. of easterly limit of surveyed road. Could not be located in 1944-45. No. T-52. Elevation 2,085 19.

180-33 Sec. 18-78-6 Opposite road post No. 167 on westerly limit of surveyed road. Could not be located in 1944-45. No. T-53. Elevation 2,076 63.

184-44 Sec. 28-74-6. 1,227 ft. N of NE cor sec. 28 and 78 ft. NW of turn in graded road. No. T-54. Elevation 2,025 21.

189-27 No. T-55. See Semmuth.

191-96 No. T-55A. See Semmuth.

Miles

West of 50th Meridian

193-43 No. T-47 See Sennett

201-74 No. T-48. See Charnock

204-84 No. T-49 See Grande Prairie

206-11 See 28-71-6 Grande Prairie at NE cor. of Church of England property and 149 ft. easterly from street line. Could not be located in 1944-45. No. T-40. Elevation 2,182.68.

210-65 Sec. 28-71-6 About 4 miles W. of Grande Prairie on N. bdy. of sec. 19 and 214 ft. W. of NE cor. No. T-61. Elevation 2,175.13.

214-04 Sec. 28-71-7 About 8 miles W. of Grande Prairie, on E. bdy. of sec. 26 and 162 ft. N. of NE cor. sec. 21. No. T-62. Elevation 2,335.40.

218-26 Sec. 28-71-8 About 3 miles SE of Lake Saskatoon, on E. bdy. of sec. 23 and 162 ft. S. of NE cor. No. T-63. Elevation 2,335.39.

225-82 Sec. 24-71-8 About 4 miles W. of Lake Saskatoon on N. bdy. of sec. 23 and 137 ft. E. of N. 1/4 cor. No. T-65. Elevation 2,328.15.

229-94 Sec. 33-71-9. About 8 miles W. of Lake Saskatoon, on N. bdy. of sec. 23 and 224 ft. W. of N. 1/4 cor. No. T-66. Elevation 2,306.71.

230-94 No. T-67 See Beaverlodge

233-17 No. T-68. See Beaverlodge

240-01 No. T-69. See Albright

243-16 No. T-70. See Hythe

252-86 Sec. 24-73-12 On E. bdy. of sec. 23 and 753 ft. N. of NE cor. sec. 24. No. T-71. Elevation 2,347.63.

257-03 Sec. 11-74-13. Near Suncor Lake, on line between road posts Nos. 31 and 32 and 291 ft. southerly from No. 31, 2 ft. E. of telephone pole line, on southwesterly limit of surveyed road. No. T-72. Elevation 2,363.63.

261-30 Sec. 20-74-12 About 2 miles W. of Suncor Lake on line between road posts Nos. 43 and 43 and 196 ft. E. of No. 43, on line with telephone poles and 13 ft. W. of a pole 30 ft. S. of southerly limit of surveyed road. No. T-73. Elevation 2,363.63.

262-07 Sec. 28-74-13 About 1 mile W. of Hayes Lake on line between road posts Nos. 51 and 56 and 352 ft. W. of No. 55, on southerly limit of surveyed road. No. T-74. Elevation 2,323.46.

269-42 Tp. 78, rge. 13. About 4 miles E. of Borden's stopping place, on line between road posts Nos. 76 and 76 and 357 ft. easterly from No. 76, on southerly limit of surveyed road. Could not be located in 1944-45. No. T-75. Elevation 2,328.84.

271-60 Crossing A berta-British Columbia boundary

284-19 Sec. 33-78-14 On 20th base line, 363 ft. E. of N. 1/4 cor. sec. 33. Could not be located in 1944-45. No. T-78. Elevation 2,088.41.

288-76 Sec. 20-78-14. About 1 1/2 miles E. of Peace Coupl., at W. side of Edmonton-Dawson Creek highway and on N. bdy. of sec. 20, 1,480 ft. W. of NE cor. No. T-79. Elevation 2,184.97.

A branch line was located northeast to end of N.A.Ry. grade. Mileage is from Peace Coupl., F.O.

8-34 Sec. 20-78-13, near the end of N.A.Ry. grade, about 8 miles E. of Peace Coupl. road, on E. bdy. sec. 20 and 123 ft. N. of NE cor. sec. 19. No. T-87. Elevation 2,163.71.

Continuation of Main Line

292-87 Sec. 7-78-14. About 1 1/2 miles N. of Peace Coupl., on E. bdy. sec. 7 and 217 ft. N. of NE cor. sec. 6. No. T-81. Elevation 2,088.73.

296-70 Sec. 21-78-14. About 8 miles N. of Peace Coupl., on E. bdy. sec. 21 and 389 ft. N. of NE cor. sec. 20. Pipe bent at surface 30 degrees to N. No. T-82. Elevation 2,324.44.

300-81 Sec. 20-78-14. On E. bdy. of sec. 20 and 230 ft. N. of NE cor. sec. 17. No. T-83. Elevation 2,279.30.

304-79 Sec. 8-80-14. On E. bdy. of sec. 8 and 174 ft. N. of NE cor. sec. 5. No. T-84. Elevation 2,324.71.

307-79 Sec. 20-80-14. On E. bdy. sec. 20 and 127 ft. N. of NE cor. sec. 20. No. T-85. Elevation 2,183.88.

309-93 Sec. 33-80-14. On 21st base line, sec. 330 ft. E. of NE cor. sec. 32. No. T-86. Elevation 2,104.69.

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